

# STIC Search Report

# STIC Database Translation

TO: Lucas Divine

Location: KNX 09 D28

**Art Unit: 2624** 

Wednesday, June 15, 2005

Case Serial Number: 10/003389

From: Paul Obiniyi Location: EIC 2600

KNX 08 B55 Phone: 305-1836

paul.obiniyi@uspto.gov

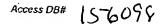
# Searen Notes

Dear Examiner Divine,

Attached please find the results of your search. Please feel free to contact me if you have additional questions or would like a re-focus search. Thank you and have a great day.

Paul







# SEARCH REQUEST FORM

# Scientific and Technical Information Center

		5 2-0	_
Requester's Full Name Will	re Lucas	Examiner #: 8 0399 Date: 4 10	105
Art Unit: 2020 Phone Num	iber 2 - 7432	- Serial Number: 1000338-9	
Location:Result	s Format Preferred (circ	cle): PAPER DISK E-MAIL	•
If more than one search is subn	nitted, please prioritiz ********	e searches in order of need. *****************	*****
species or structures, keywords, synonym	s, acronyms; and registry nu	is specifically as possible the subject matter to be searche imbers, and combine with the concept or utility of the intations, authors, etc, if known. Please attach a copy of the	vention. Define a
Title of Invention:			·
Inventors (please provide full names):	•		
			•
Earliest Priority Filing Date:			
*For Sequence Searches Only * Please include	all pertinent information (par	ent, child, Eivisional, or issued patent numbers) along with th	e appropriate seria
number.			•
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**********		************	
STAFF USE ONLY	Type of Search	Vendors and cost where applicable	
searcher: Paul Obiny	Sequence (#)	21/4	<del></del>
Searcher Phone F: 27734	AA Sequence (#)	Dialog \$ 1	· .
Searcher Location: KXIX 08 BSS	Structure (#)	Questel/Orbit	
Date Searcher Picked Up: 06/15/05	Bibliographic	Dr.Link	
Date Completed: 06/15/05	Litigation	Lexis/Nexis	
, -	•		
Searcher Prep & Review Time:	Fulltext	Sequence Systems	<del></del>
Clerical Prep Time:	Patent Family	WWW/Internet CO D Col Cil	e DH .
Online Time: 164	Other	Other (specify) SPI, RD, RD, RD	<u> </u>
		INSTEC, ACM, Assurice	
		, e,	

Set	Items	Description
S1	4	FX(3N)(DECOMPRESS? OR DE()COMPRESS? OR ALGORITHM ?) OR (DE-
	CO	MPRESS? OR DE()COMPRESS?)(3N) ALGORITHM?
S2	18	LOSSLESS (3N) (PIXEL OR PIXEL (3N) PIXEL) OR LOSSLESS (3N) (COMP-
	RE	SS? OR DE()COMPRESS?) OR LOSSLESS(3N)PIXEL(3N)DECOMPRESS?
S3	0	AU=(CLOUTHIER, S? OR CLOUTHIER S? OR BENEAR, R? OR BENEAR
	R	? OR FISCHER, T? OR FISCHER T?)

1/3, K/1

DIALOG(R) File 256:TecInfoSource (c) 2005 Info.Sources Inc. All rts. reserv.

01453595 DOCUMENT TYPE: Product

PRODUCT NAME: Pixel!FX 2000 (453595)

Mentalix Inc (519006) 1700 Alma Dr #110 Plano, TX 75075 United States TELEPHONE: (972) 423-9377

RECORD TYPE: Directory

CONTACT: Sales Department

REVISION DATE: 20040202

...with a wide range of third-party applications. It also provides users with compression and **decompression** features. Pixel! **FX** works with Agfa, Epson, Fujitsu, Hewlett-Packard, Microtek, and other scanners.

1/3, K/2

DIALOG(R) File 256: TecInfoSource (c) 2005 Info. Sources Inc. All rts. reserv.

00153460 DOCUMENT TYPE: Review

PRODUCT NAMES: XXS3DI (229721); Coral-P (229733); SoftStream Player (229745)

TITLE: Embedding media-centric technology

AUTHOR: Webb, Warren

SOURCE: EDN Magazine, v49 n12 p37(4) Jun 10, 2004

ISSN: 0012-7515

HOMEPAGE: http://www.ednmag.com

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

REVISION DATE: 20050400

Most multimedia implementations require new hardware and software on embedded systems, and compression and **decompression algorithms** (codecs) require fast processors or dedicated hardware as well as high bandwidth data communications channels...

...system. Multimedia interfaces are required to meet customer expectations, and integration of video compression and **decompression** algorithms can increase the difficulty of choosing real-time hardware. Digital rights management (DRM) may be...

1/3,K/3

DIALOG(R) File 256:TecInfoSource (c) 2005 Info.Sources Inc. All rts. reserv.

00152802 DOCUMENT TYPE: Review

PRODUCT NAMES: DVD (837971); Ulead DVD Workshop 2 (131024); Impression DVD (732141)

TITLE: Cracking DVD encoding: Part of what makes today's...

AUTHOR: Kelly, Colleen

SOURCE: eMedia, v17 n3 p16(7) Mar 2004

ISSN: 1525-4658

HOMEPAGE: http://www.onlineinc.com/emedia

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

REVISION DATE: 20041200

...of conversion in which uncompressed video becomes compressed digital video via several standards (codecs compression/ decompression algorithms). The ease with which compression can be achieved depends on the type of source material...

# 1/3, K/4

DIALOG(R) File 256:TecInfoSource (c) 2005 Info.Sources Inc. All rts. reserv.

00142834 DOCUMENT TYPE: Review

PRODUCT NAMES: Tetra (142301); iGrafx Process Central (142298)

TITLE: VLIW processor powers smart devices

AUTHOR: Staff

SOURCE: Vision Systems Design, v7 n10 p9(2) Oct 2002

ISSN: 1089-3709

?

HOMEPAGE: http://www.vision-systems-design.com

RECORD TYPE: Review

REVIEW TYPE: Product Analysis GRADE: Product Analysis, No Rating

REVISION DATE: 20030228

...Vcon demonstrated Tetra running video over IP software, which includes H.263+ video compression and **decompression** algorithms, an H.323 network protocol stack, and G.711 audio compression and decompression. DynaPel and ...

# 2/3,K/1

DIALOG(R) File 256:TecInfoSource (c) 2005 Info.Sources Inc. All rts. reserv.

02626511 DOCUMENT TYPE: Company

# Hifn Inc (626511)

750 University Ave

Los Gatos, CA 95032 United States

TELEPHONE: (408) 399-3500

FAX: (408) 399-3501

HOMEPAGE: http://www.hifn.com

TICKER: NASDAQ : HIFN

RECORD TYPE: Directory

CONTACT: Sales Department

ORGANIZATION TYPE: Corporation

EQUITY TYPE: Public

STATUS: Active

NUMBER OF EMPLOYEES: 125

SALES: NA

PERSONNEL: Kenber, Chris G, Chief Executive Officer; Kenber, Chris G, President; Kenber, Chris G, Chairperson; Walker, William R, VP; Walker, William R, Chief Financial Officer; Moore, Tom, VP Sales; Moore, Tom, VP Marketing; Dietz, Russell, VP; Dietz, Russell, Chief Technology Officer; Malik, Kamran, VP Engineering

REVISION DATE: 20040228

...authentication, and other network security technologies. The firm has earned 14 patents for the LZS **lossless** data **compression** technology. Its integrated Hifn Intelligent Packet Processing (HIPP) chip products provide users with accelerated encryption...

#### 2/3, K/2

DIALOG(R) File 256: TecInfoSource (c) 2005 Info. Sources Inc. All rts. reserv.

01794562 DOCUMENT TYPE: Product

# PRODUCT NAME: LuraDocument (794562)

Algo Vision LuraTech GmbH (663921) Helmholtzstr #2-9 10587 Berlin, GE Germany

TELEPHONE: ( ) 303-940500

RECORD TYPE: Directory

CONTACT: Sales Department

REVISION DATE: 20040210

...LuraDocument achieves dramatic reductions in file sizes yet retains text and graphics features. It offers **lossless** compression of text and recognition of colored and reverse text. LuraDocument also supports three

color modes...

# 2/3,K/3

DIALOG(R) File 256:TecInfoSource (c) 2005 Info.Sources Inc. All rts. reserv.

01755885 DOCUMENT TYPE: Product

PRODUCT NAME: LuraWave (755885)

Algo Vision LuraTech GmbH (663921) Helmholtzstr #2-9 10587 Berlin, GE Germany TELEPHONE: () 303-940500

RECORD TYPE: Directory

CONTACT: Sales Department

REVISION DATE: 20040210

...Vision LuraTech GmbH offers wavelet-based image compression, with high-quality images, a choice of **lossless** or lossy **compression**, and dramatic reductions in file sizes. It supports progressive loading of images (for Web site...

## 2/3, K/4

DIALOG(R) File 256:TecInfoSource (c) 2005 Info.Sources Inc. All rts. reserv.

01733491 DOCUMENT TYPE: Product

PRODUCT NAME: DigiSuite (733491)

Matrox Electronic Systems Ltd (621641) 1055 Blvd St Regis Dorval, PQ H9P 2T4 Canada TELEPHONE: (514) 822-6000

RECORD TYPE: Directory

CONTACT: Sales Department

REVISION DATE: 20040106

...positioning, and transparent drop shadows on two video layers, with a 32-bit graphics layer. Lossless images are compressed on the fly with a mathematically lossless codec similar to a ZIP file, using a...

# 2/3,K/5

DIALOG(R) File 256: TecInfoSource (c) 2005 Info. Sources Inc. All rts. reserv.

01164615 DOCUMENT TYPE: Product.

PRODUCT NAME: SuperGIF 1.5 (164615)

BoxTop Software Inc (618039)

PO Box 2347

Starkville, MS 39760 United States

TELEPHONE: (662) 263-5410

RECORD TYPE: Directory

CONTACT: Sales Department

REVISION DATE: 20030915

BoxTop Software's SuperGIF 1.5 is a file **compression** program that offers **lossless** GIF animation optimization features. The product employs LZW interframe optimization and a smart redithering algorithm...

# 2/3,K/6

DIALOG(R) File 256: TecInfoSource (c) 2005 Info. Sources Inc. All rts. reserv.

01111716 DOCUMENT TYPE: Product

PRODUCT NAME: Digital Jacket 2002 (111716)

DesAcc Inc (727075)

801 W Adams St

Chicago, IL 60607 United States

TELEPHONE: (312) 930-5617

RECORD TYPE: Directory

CONTACT: Sales Department

REVISION DATE: 20021030

...convert files, and digitize teaching files. Digital Jacket supports TWAIN scanners. It handles lossy and lossless file compression. It also includes backup and recovery, patient anonymization, worklist, and thumbnail preview features.

#### 2/3,K/7

DIALOG(R) File 256: TecInfoSource (c) 2005 Info. Sources Inc. All rts. reserv.

00140198 DOCUMENT TYPE: Review

PRODUCT NAMES: JPEG2000 (843369); Genuine Fractals PrintPro (725285)

TITLE: JPEG 2000: Past and future of digital image compression for CMYK

AUTHOR: McMahon, Frank

SOURCE: Digital Output, v8 n6 p32(2) Jun 2002

ISSN: 1083-5121

HOMEPAGE: http://www.digitalout.net

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

GRADE: Product Analysis, No Rating

REVISION DATE: 20021030

...reversible, and Genuine Fractals Print Pro 2.5 is a Photoshop plug-in with straight lossless compression and a near lossless feature. JPEG is an organization of experts nominated by national standards bodies and major companies...

...JPEG, JBIG/JBIG2, and SPIFF standards. JBIG is less widely used than JPEG and offers lossless compression of gray-scale and color images. SPIFF has possibilities, but disagreements on implementation have prevented

# 2/3,K/8

DIALOG(R) File 256: TecInfoSource (c) 2005 Info. Sources Inc. All rts. reserv.

00139026 DOCUMENT TYPE: Review

PRODUCT NAMES: JPEG 2000 (830577); DV-JP2000 (112542)

TITLE: JPEG techniques improve image compression

AUTHOR: Staff

SOURCE: Vision Systems Design, v7 n4 p9(2) Apr 2002

ISSN: 1089-3709

HOMEPAGE: http://www.vision-systems-design.com

RECORD TYPE: Review

REVIEW TYPE: Product Analysis GRADE: Product Analysis, No Rating

REVISION DATE: 20020930

...ADV-JP2000 can compress five 3-Mpixel images in 1 s, the ADV-JP2000 provides lossless compression of images consisting of up to 10 bits per component. This ability is an improvement on the first JPEG standard, which provided only 8 bits/components without support or lossless and lossy compression in a single format. Other companies entering the JPEG2000 hardware market with hardware, coreware, and digital signal processor-based solutions include inSilicon, with the JPEG2000 encoder core, with support for lossless and lossy compression applications and the CS6210 core for still image and video-compression systems where frame-based...

# 2/3,K/9

DIALOG(R) File 256: TecInfoSource (c) 2005 Info. Sources Inc. All rts. reserv.

00138261 DOCUMENT TYPE: Review

PRODUCT NAMES: Corel PHOTO-PAINT 10 (528978)

TITLE: Optimizing in Corel Photo-Paint 10

AUTHOR: Doyle, Cameron

SOURCE: Digital Imaging, p10(1) Mar 2002

ISSN: 1084-5119

HOMEPAGE: http://www.digitalimaging.com

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

GRADE: Product Analysis, No Rating

REVISION DATE: 20021130

...for images. GIF provides several advanced graphic options, including transparent backgrounds, interlaced images, and animation. Lossless compression stores all information in the image so that the GIF file looks exactly like the...

...palette-based images and can be used to save transparent images and alpha channels. Advanced **lossless compression** is supported to retain all information during the compression process. Users can preview and optimize...

# 2/3,K/10

DIALOG(R) File 256:TecInfoSource (c) 2005 Info.Sources Inc. All rts. reserv.

00137875 DOCUMENT TYPE: Review

PRODUCT NAMES: Media 100i/xr 7.5 (094447)

TITLE: Media 100 i/xr 7.5

AUTHOR: Leabo, Mark

SOURCE: Digital Video Magazine, v10 n4 p60(3) Apr 2002

ISSN: 1075-251X

HOMEPAGE: http://www.dv.com

RECORD TYPE: Review REVIEW TYPE: Review

GRADE: B

REVISION DATE: 20020930

...reliable, and they attribute these advantages to Media 100's stringent hardware requirements. New, optional, lossless compression makes the system handle disk space very economically. Several real-time and hardware-accelerated tools...

# 2/3,K/11

DIALOG(R) File 256: TecInfoSource (c) 2005 Info. Sources Inc. All rts. reserv.

00132458 DOCUMENT TYPE: Review

PRODUCT NAMES: 3D Graphics (838195)

TITLE: The GeForce3: Yes and No

AUTHOR: Ozer, Jan

SOURCE: PC Magazine, v20 n12 p43(1) Jun 26, 2001.

ISSN: 0888-8509

HOMEPAGE: http://www.pcmag.com

RECORD TYPE: Review REVIEW TYPE: Review

GRADE: B

REVISION DATE: 20011030

...offers faster frame rates. It also taps the GeForce2 Ultra's hidden-surface removal and lossless z compression. These features limit the amount of data processed through systems. Unlike the GeForce2 Ultra, however...

# 2/3,K/12

DIALOG(R) File 256:TecInfoSource (c) 2005 Info.Sources Inc. All rts. reserv.

00131134 DOCUMENT TYPE: Review

PRODUCT NAMES: Piranha Byte (051144); MrSID (627071); DjVu Solo (046221); Genuine Fractals (687235)

TITLE: NetWorkbook: Graphics Go to the 'Net

AUTHOR: Haegele, Katie

SOURCE: Internet Publishing Magazine, v1 n2 p36(1) Apr 2001

RECORD TYPE: Review

REVIEW TYPE: Product Analysis GRADE: Product Analysis, No Rating

REVISION DATE: 20010830

...such publications as 'Newsweek' and 'BusinessWeek' to printers in Europe and Asia. Piranha Byte uses **lossless** data **compression** that provides a faithful reproduction of the original file. LizardTech also makes images more bandwidth...

# 2/3,K/13 .

DIALOG(R) File 256:TecInfoSource (c) 2005 Info.Sources Inc. All rts. reserv.

00131017 DOCUMENT TYPE: Review

PRODUCT NAMES: JPEG 2000 (830577)

TITLE: JPEG 2000 Has Arrived

AUTHOR: Pulsifer, Allen

SOURCE: Advanced Imaging, v16 n5 p10(4) May 2001

ISSN: 1042-0711

HOMEPAGE: http://www.advancedimagingmag.com

RECORD TYPE: Review

REVIEW TYPE: Product Analysis GRADE: Product Analysis, No Rating

REVISION DATE: 20010830

...40 percent to 60 percent smaller files that do not sacrifice image quality, lossy and lossless compression, support for multispectral imager, CMYK format and ICC profiles, a standard file format that includes ...

2/3,K/14

DIALOG(R) File 256: TecInfoSource

(c) 2005 Info. Sources Inc. All rts. reserv.

00128612 DOCUMENT TYPE: Review

PRODUCT NAMES: Streaming Media (838845)

TITLE: Full Stream Ahead: A new technology delivers large 3D models...

AUTHOR: Mahoney, Diana Phillips

SOURCE: Computer Graphics World, v24 nl p14(2) Jan 2001

ISSN: 0271-4159

HOMEPAGE: http://www.cgw.com

RECORD TYPE: Review

REVIEW TYPE: Product Analysis GRADE: Product Analysis, No Rating

REVISION DATE: 20010430

...content stream and the rendering time of the first view. The first technology used is **lossless** mesh-compression, in which geometric information and connectivity information can be maintained. This is accomplished by using...

2/3,K/15

DIALOG(R) File 256: TecInfoSource (c) 2005 Info. Sources Inc. All rts. reserv.

00127585 DOCUMENT TYPE: Review

PRODUCT NAMES: Web Site Design (838543); File Compression (830276)

TITLE: Pay-Per-View: Web Image Economics

AUTHOR: Held, Gilbert

SOURCE: Network Magazine, v15 n10 p90(4) Oct 2000

ISSN: 1093-8001

HOMEPAGE: http://www.networkmagazine.com

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

GRADE: Product Analysis, No Rating

REVISION DATE: 20010330

...site's images smaller will result in reduced monthly charges. Methods described include lossy and lossless compression; and manipulation of JPEG images to reduce transmission time and storage costs. Topics covered include...

2/3,K/16

DIALOG(R) File 256: TecInfoSource

(c) 2005 Info.Sources Inc. All rts. reserv.

00123701 DOCUMENT TYPE: Review

PRODUCT NAMES: Digital Video (830268); Streaming Media (838845)

TITLE: Digital Video
AUTHOR: Copeland, Lee

SOURCE: Computerworld, v34 n21 p83(1) May 22, 2000

ISSN: 0010-4841

HOMEPAGE: http://www.computerworld.com

RECORD TYPE: Review

REVIEW TYPE: Product Analysis GRADE: Product Analysis, No Rating

REVISION DATE: 20020830

...percent of their original size, and while data is lost, this is usually not discernible. Lossless compression does not lose data, but compression is minimal. Streaming video is transmitted in real time...

2/3,K/17

DIALOG(R) File 256: TecInfoSource (c) 2005 Info. Sources Inc. All rts. reserv.

00115453 DOCUMENT TYPE: Review

PRODUCT NAMES: PhotoJazz 1.0 Windows & PowerMac (747149)

TITLE: BitJazz saves time and space with image compression

AUTHOR: Howard, Courtney E

SOURCE: Electronic Publishing Magazine, v23 nl p59(1) Jan 1999

ISSN: 1097-9190

HOMEPAGE: http://www.electronic-publishing.com

RECORD TYPE: Review

REVIEW TYPE: Product Analysis GRADE: Product Analysis, No Rating

REVISION DATE: 20021230

...process because the larger files are difficult to store and slow to process. The BitJazz lossless image compression engine preserves image quality. Users save images to the PhotoJazz format, rapidly condensing image files...

2/3,K/18

DIALOG(R) File 256: TecInfoSource (c) 2005 Info. Sources Inc. All rts. reserv.

00114113 DOCUMENT TYPE: Review

PRODUCT NAMES: Genuine Fractals PrintPro (725285)

TITLE: Genuine Fractals Print Pro: Fast, Flexible Image-Compression

Plug-In

AUTHOR: Beale, Stephen

SOURCE: Macworld, p58(1) Mar 1999

ISSN: 0741-8647

HOMEPAGE: http://www.macworld.com

RECORD TYPE: Review REVIEW TYPE: Review

GRADE: A

REVISION DATE: 20010630

...The plug-in suffers only from a RAM-hungry appetite, but otherwise shines in providing lossless and lossy image compression and CMYK support. Replacing the company's Genuine Fractals 1.0, Fractals PrintPro is far...

Set	Items	Description
S1	87	FX(3N)(DECOMPRESS? OR DE()COMPRESS? OR ALGORITHM?) OR (DE-
	CC	OMPRESS? OR DE()COMPRESS?)(3N) ALGORITHM?
S2	294	LOSSLESS (3N) (PIXEL OR PIXEL (3N) PIXEL) OR LOSSLESS (3N) (COMP-
	RE	SSS? OR DE()COMPRESS?) OR LOSSLESS(3N)PIXEL(3N)DECOMPRESS?
<b>S</b> 3	323	AU=(CLOUTHIER, S? OR CLOUTHIER S? OR BENEAR, R? OR BENEAR
	F	R? OR FISCHER, T? OR FISCHER T?)
S4	1523503.	IC=(B41J? OR G06F?)
<b>S</b> 5	4	FX(3N)(DECOMPRESS? OR DE()COMPRESS? OR ALGORITHM?)
S6	0	S5 AND S2
s7	4	S1 AND S2

7/3,K/1 (Item 1 from file: 350)

DIALOG(R) File 350: Derwent WPIX

(c) 2005 Thomson Derwent. All rts. reserv.

016518911 \*\*Image available\*\*
WPI Acc No: 2004-677294/200466

XRPX Acc No: N04-536857

Method of processing digital file for imaging applications, involves applying lossless compression to string of bits obtained by

compressing string of bits from file and decompressing compressed string

Patent Assignee: ALCOM ALGORITMI COMPRESSIONE DATI SRL (ALCO-N)

Inventor: CRISCIONE E

Number of Countries: 108 Number of Patents: 001

Patent Family:

Patent No Kind Date Applicat No Kind Date Week WO 200480080 Al 20040916 WO 2004EP1839 A 20040225 200466 B

Priority Applications (No Type Date): IT 2003M053 A 20030304

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200480080 A1 E 26 H04N-007/26

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Designated States (Regional): AT BE BG BW CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS LU MC MW MZ NL OA PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW

Method of processing digital file for imaging applications, involves applying lossless compression to string of bits obtained by compressing string of bits from file and decompressing compressed...

# Abstract (Basic):

compression method. String of bits (B) is decompressed to a string of bits (A') using decompression algorithm that is dual of lossy compensation method. String (A') is subtracted from the string A, to obtain string of bits (C) that is compressed into string of bits (D) using lossless compression method and sequence of strings (B,D) are stored.

.. digital file comprising string of bits using lossy compression method such as JPEG or JPEG2000 compression algorithm and lossless compression method such as predictive coding, Huffman coding, Ziv-Lempel coding, numeric coding and universal coding...

...Allow to achieve **lossless** data **compression** with higher compression ratios...

7/3,K/2 (Item 2 from file: 350)

DIALOG(R) File 350: Derwent WPIX

(c) 2005 Thomson Derwent. All rts. reserv.

014219441 \*\*Image available\*\*
WPI Acc No: 2002-040139/200205

XRPX Acc No: N02-029665

Data buffering system for printing system, compresses received data

# signal and compresses the compressed data signal to generate data signal for transmission

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC )

Inventor: D'AVIS T; DAVENPORT P P; TEKLITS L D
Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No Kind Date Applicat No Kind Date Week US 6300885 B1 20011009 US 2000549803 A 20000414 200205 B

Priority Applications (No Type Date): US 2000549803 A 20000414

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

US 6300885 B1 8 H03M-007/00

# Abstract (Basic):

... Lossless compression and decompression algorithms or hardware is used, hence limited memory resources are maximized

# 7/3,K/3 (Item 3 from file: 350)

DIALOG(R) File 350: Derwent WPIX

(c) 2005 Thomson Derwent. All rts. reserv.

014064871 \*\*Image available\*\*

WPI Acc No: 2001-549084/200161

XRPX Acc No: N01-407811

Compression-decompression method of digital projection radiographic images, involves generating look-up table based on noise characteristics of image acquisition system, to reduce bit depth of digital image pixel

Patent Assignee: EASTMAN KODAK CO (EAST )

Inventor: FOOS D H; WHITING B R; YOUNG S S

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No Kind Date Applicat No Kind Date Week
US 6269193 B1 20010731 US 98218123 A 19981221 200161 B

Priority Applications (No Type Date): US 98218123 A 19981221

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

US 6269193 B1 11 G06K-009/46

# Abstract (Basic):

... the image using the look-up table and processing of image is performed using a **lossless compression** algorithm. The image is reconstructed using the associated **decompression algorithm** and the inverse of companding function is applied to the image.

... Improves compression efficiency over lossless entropy coding techniques. Provides modest levels of compression by introducing some error into image. Achieves...

# 7/3,K/4 (Item 4 from file: 350)

DIALOG(R) File 350: Derwent WPIX

(c) 2005 Thomson Derwent. All rts. reserv.

012804295 \*\*Image available\*\*

WPI Acc No: 1999-610525/199952

XRPX Acc No: N99-449841

Codec logic for data transfer in computer system

Patent Assignee: ADVANCED MICRO DEVICES INC (ADMI )

Inventor: BELT S

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No Kind Date Applicat No Kind Date Week US 5974471 A 19991026 US 96684701 A 19960719 199952 B

Priority Applications (No Type Date): US 96684701 A 19960719

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

US 5974471 A 10 G06F-005/00

# Abstract (Basic):

... 122), network interface controller (124) and memory controller (107) includes codec logic which uses a lossless compression algorithm for compression and decompression operation. The peripheral devices include codec detection logic for determining whether a destination device includes...

?

(c) 2005 WIPO/Univentio

Set	Items	Description
S1	1175	FX(3N)(DECOMPRESS? OR DE()COMPRESS? OR ALGORITHM ?) OR (DE-
	C	OMPRESS? OR DE()COMPRESS?)(3N) ALGORITHM?
S2	1209	LOSSLESS(3N)(PIXEL OR PIXEL(3N)PIXEL) OR LOSSLESS(3N)(COMP-
	RI	ESS? OR DE()COMPRESS?) OR LOSSLESS(3N)PIXEL(3N)DECOMPRESS?
S3	200	AU=(CLOUTHIER, S? OR CLOUTHIER S? OR BENEAR, R? OR BENEAR
	1	R? OR FISCHER, T? OR FISCHER T?)
S4	163448	IC=(B41J? OR G06F?)
S5	24	S4 AND S3
S6	0	S5 AND S1
s7	148	S1 AND S2
S8	30	S7 AND S4

```
(Item 1 from file: 348)
 8/3, K/1
DIALOG(R) File 348: EUROPEAN PATENTS
(c) 2005 European Patent Office. All rts. reserv.
01904879
Controller for controlling printing on both surfaces of a sheet of print
Verfahren zur Steuerung des Drucks auf beiden Seiten eines Druckmediums
Procede pour controler l'impression sur les deux cotes d'une feuille
PATENT ASSIGNEE:
  Silverbrook Research Pty. Limited, (2699020), 393 Darling Street,
    Balmain, NSW 2041, (AU), (Applicant designated States: all)
INVENTOR:
  Silverbrook, Kia Silverbrook Rsrch. Pty. Ltd., 393 Darling Street,
    Balmain, NSW 2041, (AU)
  Lapstun, Paul Silverbrook Rsrch. Pty. Ltd, 393 Darling Street, Balmain,
    NSW 2041, (AU)
  Walmsley, Simon Robert Silverbrook Rsrch.Pty.Ltd., 393 Darling Street,
    Balmain, NSW 2041, (AU)
  King, Tobin Silverbrook Rsrch. Pty. Ltd., 393 Darling Street, Balmain,
    NSW 2041, (AU)
LEGAL REPRESENTATIVE:
  Moore, Barry et al (126142), Hanna, Moore & Curley, 11 Mespil Road,
    Dublin 4, (IE)
PATENT (CC, No, Kind, Date): EP 1535738 A1 050601 (Basic)
APPLICATION (CC, No, Date):
                             EP 2004105963 991118;
PRIORITY (CC, No, Date): AU 98PP7737 981216; AU 98PP7738 981216; AU
    99PP9961 990423; AU 99PP9962 990423
DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;
  LU; MC; NL; PT; SE
RELATED PARENT NUMBER(S) - PN (AN):
  EP 1150844 (EP 99957742)
INTERNATIONAL PATENT CLASS: B41J-002/00; B41J-002/175; B41J-002/155;
  B41J-029/02; B41J-003/60; B41J-003/42; B41J-029/393
ABSTRACT WORD COUNT: 131
NOTE:
  Figure number on first page: 1
LANGUAGE (Publication, Procedural, Application): English; English; English
FULLTEXT AVAILABILITY:
Available Text Language
                           Update
                                     Word Count
                          200522
                                       348
      CLAIMS A (English)
                (English) 200522
                                     26468
      SPEC A
Total word count - document A
                                     26816
Total word count - document B
Total word count - documents A + B
                                     26816
INTERNATIONAL PATENT CLASS: B41J-002/00 ...
... B41J-002/175 ...
... B41J-002/155 ...
... B41J-029/02 ...
... B41J-003/60 ...
```

... B41J-003/42 ...

# ... B41J-029/393

...SPECIFICATION text at 800 dpi. This yields a bi-level image of 7.4MB, requiring a lossless compression ratio of less than 2.5:1 to fit within the 3MB/page limit. We...wrong" match to have a detrimental effect on the compression ratio. For completeness the corresponding decompression algorithm is given below. It forms the core of the EDRL Expander unit in the printer...of one bits or zero bits which represent the corresponding part of the image. The decompression algorithm is defined in Section 6.2.3.2.

The EEU 188 consists of a bitstream...

# 8/3,K/2 (Item 2 from file: 348) DIALOG(R)File 348:EUROPEAN PATENTS (c) 2005 European Patent Office. All rts. reserv.

# 01878813

Print engine including means for inhibiting ink evaporation

Druckwerk mit Vorrichtung zur Verhinderung des Verdunstens von Tinte

Appareil d'impression avec dispositif pour empecher l'evaporation de l'encre

PATENT ASSIGNEE:

Silverbrook Research Pty. Limited, (2699020), 393 Darling Street, Balmain, NSW 2041, (AU), (Applicant designated States: all) INVENTOR:

Silverbrook, Kia, Silverbrook Research Pty. Limited 393 Darling St., Balmain 2041, NSW, (AU)

Lapstun, Paul, Silverbrook Research Pty. Limited 393 Darling St., Balmain 2041, NSW, (AU)

Walmsley, Simon Robert, Silverbrook Research Pty. Limited 393 Darling St., Balmain 2041, NSW, (AU)

King, Tobin, Silverbrook Research Pty. Limited 393 Darling St., Balmain 2041, NSW, (AU)

LEGAL REPRESENTATIVE:

Moore, Barry et al (126142), Hanna, Moore & Curley, 11 Mespil Road, Dublin 4, (IE)

PATENT (CC, No, Kind, Date): EP 1520700 A2 050406 (Basic) EP 1520700 A3 050427

APPLICATION (CC, No, Date): EP 2004105966 991118;

PRIORITY (CC, No, Date): AU 98PP7737 981216; AU 98PP7738 981216; AU 99PP9961 990423; AU 99PP9962 990423

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE

RELATED PARENT NUMBER(S) - PN (AN):

EP 1150844 (EP 99957742)

INTERNATIONAL PATENT CLASS: B41J-002/00; B41J-002/175; B41J-002/155; B41J-003/60; B41J-003/42; B41J-002/165

ABSTRACT WORD COUNT: 124

NOTE:

Figure number on first page: 13

LANGUAGE (Publication, Procedural, Application): English; English; English FULLTEXT AVAILABILITY:

Available Text Language Update Word Count CLAIMS A (English) 200514 416 SPEC A (English) 200514 26449 Total word count - document A 26865 Total word count - document B 0

Total word count - documents A + B 26865 INTERNATIONAL PATENT CLASS: **B41J-002/00** ...

... B41J-002/175 ...

... B41J-002/155 ...

... B41J-029/02 ...

... B41J-003/60 ...

... B41J-003/42 ...

... B41J-002/165

...SPECIFICATION text at 800 dpi. This yields a bi-level image of 7.4MB, requiring a lossless compression ratio of less than 2.5:1 to fit within the 3MB/page limit. We...wrong" match to have a detrimental effect on the compression ratio. For completeness the corresponding decompression algorithm is given below. It forms the core of the EDRL Expander unit in the printer...of one bits or zero bits which represent the corresponding part of the image. The decompression algorithm is defined in Section 6.2.3.2.

The EEU 188 consists of a bitstream...

# 8/3,K/3 (Item 3 from file: 348)

DIALOG(R) File 348: EUROPEAN PATENTS

(c) 2005 European Patent Office. All rts. reserv.

01878812

Digital printing system for printing on both surfaces of a sheet of print media

Digitales Drucksystem zum Druck auf beiden Seiten des Blattes

Systeme d'impression digital pour l'impression sur les deux cotes d'une feuille

PATENT ASSIGNEE:

Silverbrook Research Pty. Limited, (2699020), 393 Darling Street, Balmain, NSW 2041, (AU), (Applicant designated States: all) INVENTOR:

Silverbrook, Kia, Silverbrook Research Pty. Ltd. 393 Darling Street, Balmain, NSW 2041, (AU)

Lapstun, Paul, Silverbrook Research Pty. Ltd. 393 Darling Street, Balmain, NSW 2041, (AU)

Walmsley, Simon Robert, Silverbrook Research Pty. Ltd. 393 Darling Street, Balmain, NSW 2041, (AU)

King, Tobin, Silverbrook Research Pty. Ltd. 393 Darling Street, Balmain, NSW 2041, (AU)

LEGAL REPRESENTATIVE:

Moore, Barry et al (126142), Hanna, Moore & Curley, 11 Mespil Road, Dublin 4, (IE)

PATENT (CC, No, Kind, Date): EP 1520699 A2 050406 (Basic) EP 1520699 A3 050420

APPLICATION (CC, No, Date): EP 2004105965 991118;

PRIORITY (CC, No, Date): AU 98PP7737 981216; AU 98PP7738 981216; AU 99PP9961 990423; AU 99PP9962 990423

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE

```
RELATED PARENT NUMBER(S) - PN (AN):
  EP 1150844 (EP 99957742)
INTERNATIONAL PATENT CLASS: B41J-002/00; B41J-002/175; B41J-002/155;
  B41J-029/02; B41J-003/60; B41J-003/42; B41J-002/165
ABSTRACT WORD COUNT: 112
NOTE:
  Figure number on first page: 13
LANGUAGE (Publication, Procedural, Application): English; English; English
FULLTEXT AVAILABILITY:
                                     Word Count
Available Text Language
                           Update
      CLAIMS A (English)
                           200514
                                       609
      SPEC. A
               (English) 200514
                                     26480
Total word count - document A
                                     27089
Total word count - document B
                                         0
Total word count - documents A + B
                                     27089
INTERNATIONAL PATENT CLASS: B41J-002/00 ...
... B41J-002/175 ...
... B41J-002/155 ...
... B41J-029/02 ...
... B41J-003/60 ...
... B41J-003/42 ...
... B41J-002/165
...SPECIFICATION text at 800 dpi. This yields a bi-level image of 7.4MB,
  requiring a lossless compression ratio of less than 2.5:1 to fit
  within the 3MB/page limit. We...
...wrong" match to have a detrimental effect on the compression ratio. For
  completeness the corresponding decompression algorithm is given
  below. It forms the core of the EDRL Expander unit in the printer...of
  one bits or zero bits which represent the corresponding part of the
  image. The decompression algorithm is defined in Section 6.2.3.2.
    The EEU 188 consists of a bitstream...
             (Item 4 from file: 348)
 8/3,K/4
DIALOG(R) File 348: EUROPEAN PATENTS
(c) 2005 European Patent Office. All rts. reserv.
01878811
Method of controlling printing on both surfaces of a sheet of print media
Verfahren zur Steuerung des Drucks auf beiden Seiten eines Druckmediums
Procede pour controler l'impression sur les deux cotes d'une feuille
```

Silverbrook Research Pty. Limited, (2699020), 393 Darling Street, Balmain, NSW 2041, (AU), (Applicant designated States: all)

Lapstun, Paul, Silverbrook Research Pty. Limited 393 Darling St.,

Balmain, NSW, New South Wales 2041, (AU)

Silverbrook, Kia, Silverbrook Research Pty. Limited 393 Darling St.,

PATENT ASSIGNEE:

INVENTOR:

```
Balmain, NSW, New South Wales 2041, (AU)
  Walmsley, Simon Robert, Silverbrook Research Pty. Limited 393 Darling St.
    , Balmain, NSW, New South Wales 2041, (AU)
  King, Tobin, Silverbrook Research Pty. Limited 393 Darling St., Balmain,
   NSW, New South Wales 2041, (AU)
LEGAL REPRESENTATIVE:
  Moore, Barry et al (126142), Hanna, Moore & Curley, 11 Mespil Road,
    Dublin 4, (IE)
PATENT (CC, No, Kind, Date): EP 1520698 A2 050406 (Basic)
                             EP 1520698 A3 050427
APPLICATION (CC, No, Date):
                             EP 2004105962 991118;
PRIORITY (CC, No, Date): AU 98PP7737 981216; AU 98PP7738 981216; AU
    99PP9961 990423; AU 99PP9962 990423
DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;
  LU; MC; NL; PT; SE
RELATED PARENT NUMBER(S) - PN (AN):
  EP 1150844 (EP 99957742)
INTERNATIONAL PATENT CLASS: B41J-002/00; B41J-002/175; B41J-002/155;
 B41J-029/02; B41J-003/60; B41J-003/42; B41J-029/393
ABSTRACT WORD COUNT: 125
NOTE:
 Figure number on first page: 13
LANGUAGE (Publication, Procedural, Application): English; English
FULLTEXT AVAILABILITY:
Available Text Language
                          Update
                                    Word Count
      CLAIMS A (English) 200514
                                      306
                                    26478
               (English) 200514
Total word count - document A
                                    26784
Total word count - document B
Total word count - documents A + B
                                    26784
INTERNATIONAL PATENT CLASS: B41J-002/00 ...
... B41J-002/175 ...
... B41J-002/155 ...
... B41J-029/02 ...
... B41J-003/60 ...
... B41J-003/42 ...
... B41J-029/393
...SPECIFICATION text at 800 dpi. This yields a bi- level image of 7.4MB,
 requiring a lossless compression ratio of less than 2.5:1 to fit
 within the 3MB/page limit. We...wrong" match to have a detrimental effect
 on the compression ratio.
  For completeness the corresponding decompression algorithm is given
 below. It forms the core of the EDRL Expander unit in the printer...of
  one bits or zero bits which represent the corresponding part of the
```

image. The decompression algorithm is defined in Section 6.2.3.2.

8/3,K/5 (Item 5 from file: 348)

The EEU 188 consists of a bitstream...

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DIALOG(R) File 348: EUROPEAN PATENTS
(c) 2005 European Patent Office. All rts. reserv.
01878810
Print engine including transfer roller
Druckwerk mit Transferwalze
Appareil d'impression avec rouleaux de transfert
PATENT ASSIGNEE:
  Silverbrook Research Pty. Limited, (2699020), 393 Darling Street,
    Balmain, NSW 2041, (AU), (Applicant designated States: all)
INVENTOR:
  Silverbrook, Kia, Silverbrook Research Pty. Limited 393 Darling St.,
   .Balmain 2041, NSW, (AU)
  Lapstun, Paul, Silverbrook Research Pty. Limited 393 Darling St., Balmain
    2041, NSW, (AU)
  Walmsley, Simon Robert, Silverbrook Research Pty. Limited 393 Darling St.
    , Balmain 2041, NSW, (AU)
  King, Tobin, Silverbrook Research Pty. Limited 393 Darling St., Balmain
   2041, NSW, (AU)
LEGAL REPRESENTATIVE:
 Moore, Barry et al (126142), Hanna, Moore & Curley, 11 Mespil Road,
    Dublin 4, (IE)
PATENT (CC, No, Kind, Date): EP 1520697 A2 050406 (Basic)
                            EP 1520697 A3
                                             050420
APPLICATION (CC, No, Date):
                              EP 2004105961 991118;
PRIORITY (CC, No, Date): AU 98PP7737 981216; AU 98PP7738 981216; AU
    99PP9961 990423; AU 99PP9962 990423
DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;
  LU; MC; NL; PT; SE
RELATED PARENT NUMBER(S) - PN (AN):
  EP 1150844 (EP 99957742)
INTERNATIONAL PATENT CLASS: B41J-002/00; B41J-002/175; B41J-002/155;
 B41J-029/02; B41J-003/60; B41J-003/42
ABSTRACT WORD COUNT: 90
NOTE:
  Figure number on first page: 13
LANGUAGE (Publication, Procedural, Application): English; English
FULLTEXT AVAILABILITY:
                           Update
                                     Word Count
Available Text Language
      CLAIMS A (English) 200514
                                       253
                                     26449
                (English) 200514
      SPEC A
                                     26702
Total word count - document A
Total word count - document B
Total word count - documents A + B
                                     26702
INTERNATIONAL PATENT CLASS: B41J-002/00 ...
... B41J-002/175 ...
... B41J-002/155 ...
... B41J-029/02 ...
... B41J-003/60 ...
... B41J-003/42
...SPECIFICATION text at 800 dpi. This yields a bi-level image of 7.4MB,
```

requiring a lossless compression ratio of less than 2.5:1 to fit within the 3MB/page limit. We...wrong" match to have a detrimental effect on the compression ratio.

For completeness the corresponding decompression algorithm is given below. It forms the core of the EDRL Expander unit in the printer...of one bits or zero bits which represent the corresponding part of the image. The decompression algorithm is defined in Section 6.2.3.2. The EEU 188 consists of a bitstream...

8/3,K/6 (Item 6 from file: 348) DIALOG(R) File 348: EUROPEAN PATENTS

(c) 2005 European Patent Office. All rts. reserv.

01184348

Disk-based image storage system and method with prioritized loading and retrieval operations

Festplatten-Bildspeichersystem und Verfahren mit vorrangigen Lade- und Wiederauffindvorgangen

Systeme et methode de stockage d'image base sur disque avec operations de chargement et d'extraction a priorite

PATENT ASSIGNEE:

EASTMAN KODAK COMPANY, (201212), 343 State Street, Rochester, New York 14650, (US), (Applicant designated States: all) INVENTOR:

Gerstenberger, Jeffrey S. c/o Eastman Kodak Comp., Patent Legal Staff 343 State Street, Rochester, New York 14650-2201, (US)

LEGAL REPRESENTATIVE:

Haile, Helen Cynthia et al (60522), Kodak Limited Patent Department, W92-3A, Headstone Drive, Harrow, Middlesex HA1 4TY, (GB)

PATENT (CC, No, Kind, Date): EP 1031915 A2 000830 (Basic)

APPLICATION (CC, No, Date): EP 200481 000214;

PRIORITY (CC, No, Date): US 258993 990226

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G06F-003/12

ABSTRACT WORD COUNT: 261

NOTE:

Figure number on first page: 1

LANGUAGE (Publication, Procedural, Application): English; English; English FULLTEXT AVAILABILITY:

Available Text Language Update Word Count 200035 CLAIMS A (English) 2053 7664 SPEC A (English) 200035 Total word count - document A 9717

Total word count - document B Total word count - documents A + B . 9717

INTERNATIONAL PATENT CLASS: G06F-003/12

...SPECIFICATION storage subsystem 14 where they are compressed by the image compressor 20 using preferably a lossless image compression algorithm. The particular compression algorithm used is not significant to the invention, and algorithms such as Lempel-Ziv, Group 4 FAX, or other lossless compression algorithm can be used. A lossless

compression algorithm is used so that the original input image is exactly reproduced when the image...used in the compressor 20 impacts the bandwidth required for the disk storage module 24. Lossless compression algorithms typically compress images by a ratio of at least 2:1, and compression ratios of 10:1...

...marking engine subsystem 16 is 9.8 megabytes per second (MB/s). Since the compressor/ decompressor 54 uses an algorithm that expands worst-case images by a ratio of 8:9, the disk storage module...

8/3,K/7 (Item 7 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2005 European Patent Office. All rts. reserv.

# 00966558

Compressed representation of a data base that permits ad hoc querying
Komprimierte Datenbankdarstellung, die ad hoc Abfrage ermoglicht
Representation comprimee d'une base de donnees permettant l'interrogation
ad hoc

# PATENT ASSIGNEE:

AT&T Corp., (589370), 32 Avenue of the Americas, New York, NY 10013-2412, (US), (applicant designated states: DE;FR;GB) INVENTOR:

Faloutsos, Christos N., 12912 Goodhill Road, Silver Spring, Maryland 20906, (US)

Jagadish, Hosagrahar Visvesvaraya, 16 Beech Avenue, Berkeley Heights, New-Jersey 07922, (US)

Korm, Philip Russell, 8125 48th Avenue No. 203, College Park, Maryland 20740, (US)

# LEGAL REPRESENTATIVE:

Asquith, Julian Peter et al (76431), Marks & Clerk, 4220 Nash Court, Oxford Business Park South, Oxford OX4 2RU, (GB)

PATENT (CC, No, Kind, Date): EP 877325 A1 981111 (Basic)

APPLICATION (CC, No, Date): EP 98302669 980406;

PRIORITY (CC, No, Date): US 848454 970508

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: G06F-017/30

ABSTRACT WORD COUNT: 79

LANGUAGE (Publication, Procedural, Application): English; English; English; FULLTEXT AVAILABILITY:

Available Text Language Update Word Count 9846 666 CLAIMS A (English) 4369 9846 SPEC A (English) 5035 Total word count - document A Total word count - document B U 5035 Total word count - documents A + B

# INTERNATIONAL PATENT CLASS: G06F-017/30

...SPECIFICATION least large portions of the data base before a query can be executed.

Algorithms for lossless compression are available (e.g., gzip, based on the well-known Lempel-Ziv algorithm, Huffman coding, arithmetic coding, etc.). These lossless compression algorithms require decompression of part or all of the data base before a query can be performed. While lossless compression achieves fairly good

compression, the difficulty with this technique has to do with reconstruction of...smaller one from which an acceptable approximation of the original data can be constructed. Alternatively, lossless data base compression transforms a body of data into a smaller body of data from which it is possible to exactly and uniquely recover the original data. While lossless data base compression provides for an exact representation of the data base it requires more memory. Thus, lossy...

```
8/3,K/8
             (Item 8 from file: 348)
DIALOG(R) File 348: EUROPEAN PATENTS
(c) 2005 European Patent Office. All rts. reserv.
00716993
Data compression method and system
Datenkompressionsverfahren und System
Procede et systeme de compression des donnees
PATENT ASSIGNEE:
SETA CO., LTD., (1936671), 3-1-25, Ariake, Koto-ku, Tokyo, (JP),
    (Proprietor designated states: all)
INVENTOR:
  Watanabe, Hiroyuki, c/o Seta Co., Ltd., 35-1, Nishi-Kamata 7-chome,
    Ohta-ku, Tokyo 144, (JP)
LEGAL REPRESENTATIVE:
  Prufer, Lutz H., Dipl.-Phys. et al (38295), PRUFER & PARTNER,
    Patentanwalte, Harthauser Strasse 25d, 81545 Munchen, (DE)
PATENT (CC, No, Kind, Date): EP 678986 A1 951025 (Basic)
                              EP 678986 B1 000712
                              EP 95106020 950421;
APPLICATION (CC, No, Date):
PRIORITY (CC, No, Date): JP 94107837 940422
DESIGNATED STATES: DE; FR; GB
INTERNATIONAL PATENT CLASS: H03M-007/42; G06F-005/00
ABSTRACT WORD COUNT: 94
NOTE:
  Figure number on first page: 1
LANGUAGE (Publication, Procedural, Application): English; English; English
FULLTEXT AVAILABILITY:
                                     Word Count
Available Text Language
                           Update
                                       774
      CLAIMS B
               (English)
                           200028
      CLAIMS B
                 (German)
                           200028
                                       683
      CLAIMS B
                 (French)
                           200028
                                       890
      SPEC B
             (English)
                           200028
                                       5169
                                         0
Total word count - document A
Total word count - document B
                                      7516
Total word count - documents A + B
                                      7516
...INTERNATIONAL PATENT CLASS: G06F-005/00
...ABSTRACT A1
```

A lossless type data compression method employing a dictionary system is suitable for character generator of a game machine and...

8/3,K/9 (Item 9 from file: 348) DIALOG(R) File 348: EUROPEAN PATENTS (c) 2005 European Patent Office. All rts. reserv.

00632495

Video compression/decompression using discrete cosine transformation.

Video-Kompression und Dekompression mit Anwendung der diskreten Cosinustransformation.

Compression et decompression de signaux video utilisant la transformee discrete du cosinus.

PATENT ASSIGNEE:

INTEGRATED INFORMATION TECHNOLOGY, INC.,, (1621950), 2445 Mission College Blvd.,, Santa Clara, California 95054, (US), (applicant designated states: DE)

#### INVENTOR:

Fandrianto, Jan, 511 Santa Rose Drive, Los Gatos, California 95032, (US) Wang, Chi Shin, 27900 Altamount Circle, Los Altos Hills, California 94022, (US)

Rainnie, Hedley K. J., 2200 Monroe Street, No. 807, Santa Clara, California 95050, (US)

Sutardja, Sehat, 11572 Seven Springs Drive, Cupertino, California 95014, (US)

Martin, Bryan R., 580 Sobrato Drive, Campbell California 95008, (US) LEGAL REPRESENTATIVE:

Jones, Ian (32444), W.P. THOMSON & CO. Celcon House 289-293 High Holborn, London WClV 7HU, (GB)

PATENT (CC, No, Kind, Date): EP 615199 A1 940914 (Basic)

APPLICATION (CC, No, Date): EP 93301902 930312;

PRIORITY (CC, No, Date): EP 93301902 930312

DESIGNATED STATES: DE

INTERNATIONAL PATENT CLASS: G06F-015/332; G06F-007/544

ABSTRACT WORD COUNT: 219

LANGUAGE (Publication, Procedural, Application): English; English; English FULLTEXT AVAILABILITY:

Available Text Language Update Word Count CLAIMS A (English) EPABF2 1953 (English) EPABF2 11420 SPEC A 13373 Total word count - document A Total word count - document B Λ Total word count - documents A + B 13373

INTERNATIONAL PATENT CLASS: G06F-015/332 ...

# ... G06F-007/544

- ...SPECIFICATION these compression techniques, as well as other techniques for voice mall and annotation and for **lossless** data **compression** of arbitrary binary files to be stored to disk or communicated to other computers. Moreover...
- ...CLAIMS method of selectively compressing or decompressing digitized video data in accordance with a video compression / decompression algorithm utilizing the discrete cosine transform ("DCT") function, comprising the steps of:

  storing first data derived...
- ...method of selectively compressing or decompressing digitized video data in accordance with a video compression / decompression algorithm utilizing the discrete cosine transform ("DCT") function, comprising the steps of:

storing first data derived...

- ...decompressing digitized video data stored in an external memory in accordance with a video compression / decompression algorithm utilizing the discrete cosine transform ("DCT") function, comprising:
  - a programmable controller;
  - a motion calculation path...decompressing digitized video data stored in an external memory in accordance with a video compression / decompression algorithm utilizing the discrete cosine transform ("DCT") function, comprising:
    - a programmable controller;
    - a motion calculation path...

#### 8/3,K/10 (Item 10 from file: 348)

DIALOG(R) File 348: EUROPEAN PATENTS

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00573274

Image data compression.

Bilddatenkompression.

Compression de donnees d'image.

PATENT ASSIGNEE:

ACORN COMPUTERS LIMITED, (907950), Fulbourn Road, Cherry Hinton Cambridge CB1 4JN, (GB), (applicant designated states: DE;FR;GB;IT;NL)

INVENTOR:

Wilson, Alun Roger, 6 Willow Grove, Lode, Cambridge CB5 9EL, (GB) LEGAL REPRESENTATIVE:

Robinson, Nigel Alexander Julian et al (69551), D. Young & Co., 21 New Fetter Lane, London EC4A 1DA, (GB)

PATENT (CC, No, Kind, Date): EP 569207 A2 931110 (Basic)

EP 569207 A3

APPLICATION (CC, No, Date): EP 93303442 930504;

PRIORITY (CC, No, Date): GB 9209646 920505

DESIGNATED STATES: DE; FR; GB; IT; NL

INTERNATIONAL PATENT CLASS: G06F-015/64

ABSTRACT WORD COUNT: 182

LANGUAGE (Publication, Procedural, Application): English; English; English FULLTEXT AVAILABILITY:

Word Count Available Text Language Update CLAIMS A (English) EPABF1 966

6027 SPEC A (English) EPABF1

Total word count - document A 6993

Total word count - document B n Total word count - documents A + B 6993

INTERNATIONAL PATENT CLASS: G06F-015/64

...SPECIFICATION an acceptable quality to 5000 bytes per frame requires the use of sophisticated compression and decompression algorithms which in turn place high demands upon the processing capacity of the computer system. Furthermore...factor around 7 in order to reach the CD-ROM data compression scheme is capable of bandwidth target, no known lossless this factor of compression and accordingly a lossy compression scheme is

(Item 1 from file: 349) 8/3,K/11

DIALOG(R) File 349: PCT FULLTEXT

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01221975 \*\*Image available\*\* METHOD AND APPARATUS FOR GENERATING GRAPHICAL AND MEDIA DISPLAYS AT A THIN CLIENT PROCEDE ET DISPOSITIF DESTINES A GENERER DES AFFICHAGES GRAPHIQUES ET MULTIMEDIA AU NIVEAU D'UN CLIENT Patent Applicant/Assignee: CITRIX SYSTEMS INC, 851 West Cypress Creek Road, Fort Lauderdale, FL 33309, US, US (Residence), US (Nationality), (For all designated states except: US) Patent Applicant/Inventor: ROBINSON David, 28 Murray Farm Road, Carlingford 2118, AU, AU (Residence) , AU (Nationality), (Designated only for: US) LABORCZFALVI Lee, 10 Attunga Street, Seven Hills 2147, AU, AU (Residence) , AU (Nationality), (Designated only for: US) SEMAAN Pierre, 36 Keldie Street, Forestville, NSW 2087, AU, CA (Residence), AU (Nationality), (Designated only for: US) ROYCHOUDRY Anil, 40 Bricketwood Drive, Woodcroft, Nsw 2767, AU, AU (Residence), AU (Nationality), (Designated only for: US) DUURSMA Martin, 4 Orchid Place, West Pennant Hills 2125, AU, AU (Residence), AU (Nationality), (Designated only for: US) PANASYUK Anatoliy, 130 Avenue North East, Apt. 2606, Bellevue, WA 98005, US, US (Residence), AU (Nationality), (Designated only for: US) MOMTCHILOV Georgy, 851 West Cypress Creek Road, Fort Lauderdale, FL 33309 , US, US (Residence), -- (Nationality), (Designated only for: US) Legal Representative: LANZA John D (et al) (agent), Lahive & Cockfield, LLP, 28 State Street, Boston, MA 02109, US, Patent and Priority Information (Country, Number, Date): WO 200529864 A1 20050331 (WO 0529864) Patent: WO 2004US29993 20040913 (PCT/WO US04029993) Application: Priority Application: US 2003502576 20030912; US 2003510461 20031010 Designated States: (All protection types applied unless otherwise stated - for applications 2004+) AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW (EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PL PT RO SE SI SK TR (OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG (AP) BW GH GM KE LS MW MZ NA SD SL SZ TZ UG ZM ZW (EA) AM AZ BY KG KZ MD RU TJ TM Publication Language: English Filing Language: English Fulltext Word Count: 18086

International Patent Class: G06F-017/30 ...

# ... G06F-003/14

Fulltext Availability: Detailed Description Claims

# Detailed Description

... available to the server agent 150 for the compression of the uncompressed representation include lossless **compression** algorithms and lossy **compression** algorithms. **Lossless compression** algorithms

reduce the size of the uncompressed representation without the loss of information contained in...

- ...large areas of the same color, e.g., a computer-generated image, and applies a lossless compression algorithm. In yet another embodiment, the number of colors contained in the pixels of the...
- ...00511 In still another embodiment, the server agent 150 compresses the uncompressed representation using a **lossless** compression algorithm and compares the size of the compressed result to a predetermined value. When the...
- ...compression is less than a predetermined percentage of the size of the result of the lossless compression, then the lossy compression algorithm is selected.

[00521 The client agent 175 receives the transmission...the client node 105 has the appropriate graphics library(ies). 180 installed to perform the **decompression algorithms**, the client agent 175 uses the library 180 to decompress the compressed format of the...

...145.

\_ 14

[00541 In one embodiment, the client agent 175 does not contain all the decompression algorithms to decompress the non-textual element from a compressed format into a bitmap representation. If the client node 1105 does not have the appropriate graphics library(ics) 180 installed to perform the decompression algorithms, the client agent 175 requests the needed graphics library from the server node 1 1...456, the intercepted first decompressed data set. A variety of compression techniques, including both lossy compression techniques and lossless compression techniques, may be used by the second output filter module 355B, at step 456, to...

# Claim

- ... place of the decompressed data set.
  - 22 The method of claim 21 wherein the identified **compression** technique is a
- . lossless compression technique.
  - 23 The method of claim 22 wherein the non-textual element is an image...
- ...textual element is a computer-generated imaore.
  - 25 The method of claim 22 wherein the **lossless compression** technique is 2DRLE compression.
  - 26 The method of claim 21 wherein the identified compression technique...
- ...claim 21 wherein identifying a compression technique comprises:
  compressing the decompressed data set using a lossless compression
  technique to
  form a first test data set;
  comparing the size of the first test...

- ...31 The method of claim 21 wherein identifying a compression technique comprises applying image processing algorithms to the decompressed data set to deterinine if the non-textual element is photographic and selecting a lossy...
- ...32 The method of claim 21 wherein identifying a compression technique comprises applying image processing algorithms to the decompressed data set to determine if the non-textual element is continuous tone and selecting a...
- ...place of the decompressed data set.
  - 35 The system of claim 34 wherein the identified **compression** technique is a

lossless compression technique.

- 36 The system of claim 35 wherein the non-textual element is an image... ... textual element is a computer-generated image.
  - 38 The system of claim 35 wherein the **lossless** compression technique is 2DRLE compression.
  - 39 The system of claim 34 wherein the identified compression technique...
- ...output filter module identifies a compression technique by compressing the decompressed data set using a **lossless** compression technique to form a first test data set, comparing the size of the first test...
- ...claim 34 wherein the output filter module identifies a compression technique by applying image processing algorithms to the decompressed data set to determine if the non-textual element is photographic and selecting a lossy...
- ...claim 34 wherein the output filter module identifies a compression technique by applying image processing algorithms to the decompressed data set to determine if the non-textual element is continuous tone and selecting a...

# 8/3,K/12 (Item 2 from file: 349)

DIALOG(R) File 349:PCT FULLTEXT

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# 01129704

# DEAD NOZZLE COMPENSATION

# COMPENSATION D'UNE BUSE HORS ETAT DE FONCTIONNEMENT

Patent Applicant/Assignee:

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Patent Applicant/Inventor:

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JACKSON PULVER Mark, Silverbrook Reseach Pty Ltd, 393 Darling Street, Balmain, New South Wales 2041, AU, AU (Residence), AU (Nationality),

(Designated only for: US) PLUNKETT Richard Thomas, Silverbrook Research Pty Ltd, 393 Darling Street, Balmain, New South Wales 2041, AU, AU (Residence), AU (Nationality), (Designated only for: US) SHIPTON Gary, Silverbrook Research Pty Ltd, 393 Darling Street, Balmain, New South Wales 2041, AU, AU (Residence), GB (Nationality), (Designated only for: US) SILVERBROOK Kia, Silverbrook Research Pty Ltd, 393 Darling Street, Balmain, New South Wales 2041, AU, AU (Residence), AU (Nationality), (Designated only for: US) LAPSTUN Paul, Silverbrook Research Pty Ltd, 393 Darling Street, Balmain, New South Wales 2041, AU, AU (Residence), NO (Nationality), (Designated only for: US) Legal Representative: SILVERBROOK Kia (agent), Silverbrook Research Pty Ltd, 393 Darling Street, Balmain, New South Wales 2041, AU, Patent and Priority Information (Country, Number, Date): Patent: WO 200450369 A1 20040617 (WO 0450369) WO 2003AU1616 20031202 (PCT/WO AU03001616) Application: Priority Application: AU 2002953134 20021202; AU 2002953135 20021202 Designated States: (Protection type is "patent" unless otherwise stated - for applications prior to 2004) AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW (EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT RO SE SI SK TR (OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG (AP) BW GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW (EA) AM AZ BY KG KZ MD RU TJ TM Publication Language: English Filing Language: English Fulltext Word Count: 387411 Main International Patent Class: B41J-002/01 Fulltext Availability: Claims Claim ... bi-level data has a size of 29.5 MB. Coherent data such as text compresses very well. Using lossless bilevel compression algorithms such as SMG4 fax as discussed in Section 8 2 1, ten-point plain text compresses with a ratio of about 50:1. Lossless bi-level compression across an average page is about 20:1 with 10:1 possible for pages which ...of CMYK contone image data consists of 1 1 6MB of bi-level data. Using lossless bi-level compression algorithms on this data is pointless precisely because the optimal dither is stochastic - i.e...

...layer compressed page image format therefore exploits the relative strengths of lossy JPEG contone image compression, lossless bi-level text compression, and tag encoding. The format is compact enough to be storage-efficient, and simple enough...contone to DRAM CFU Contone FIFO Unit Provides line buffering between CDU and HCU LBD Lossless Bi-level Expands compressed bi-level layer.

SFU Spot FIFO Unit Provides line buffering between LBD and HCU...

8/3,K/13 (Item 3 from file: 349)

DIALOG(R) File 349: PCT FULLTEXT

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01123420 \*\*Image available\*\*

MULTICAST VIDEOCONFERENCING

### VIDEOCONFERENCE EN MULTIDIFFUSION

Patent Applicant/Assignee:

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Legal Representative:

VON TERSCH Glenn (agent), Perkins Coie LLP, 101 Jefferson Drive, Menlo Park, CA 94025, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200444710 A2-A3 20040527 (WO 0444710)
Application: WO 2003US36349 20031112 (PCT/WO US03036349)

Priority Application: US 2002425621 20021111

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW (EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT RO SE

- SI SK TR (OA) BF BJ CF CG CI CM GA GN GO GW ML MR NE SN TD TG
- (AP) BW GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
- (EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English Fulltext Word Count: 28056

Main International Patent Class: G06F-015/16

Fulltext Availability: Detailed Description

# Detailed Description

... as, WAN, LAN, CAN, WAP, is achieved using unicast technology. Unicast depends on compression and **decompression algorithms** in order to transmit vast amounts of video/audio data. Further, unicast requires delay times...

...and transmission but it requires greater processing power when encoding and decoding algorithms are applied.

Lossless techniques create compressed files first and then decompresses the file into exactly the same file as the original...

8/3,K/14 (Item 4 from file: 349)

DIALOG(R) File 349: PCT FULLTEXT

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01050139

METHODS AND APPARATUS FOR GENERATING GRAPHICAL AND MEDIA DISPLAYS AT A CLIENT

PROCEDES ET DISPOSITIFS POUR PRODUIRE DES PRESENTATIONS DE GRAPHIQUES ET D'ELEMENTS DE MEDIA CHEZ UN CLIENT

Patent Applicant/Assignee:

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Patent Applicant/Inventor:

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LABORCZFALVI Lee, 10 Attunga Street, Seven Hills 2147, AU, AU (Residence), AU (Nationality), (Designated only for: US)

SEMAAN Pierre, 36 Keldie Street, Forestville, NSW 2087, AU, AU (Residence), AU (Nationality), (Designated only for: US)

ROYCHOUDHRY Anil, 40 Bricketwood Drive, Woodcroft, NSW 2767, AU, AU (Residence), AU (Nationality), (Designated only for: US)

DUURSMA Martin, 4 Orchid Place, West Pennant Hills 2125, AU, AU (Residence), AU (Nationality), (Designated only for: US)

PANASYUK Anatoliy, 130 Avenue North East, Apt. 2606, Bellevue, WA 98005, US, US (Residence), AU (Nationality), (Designated only for: US)

Legal Representative:
BLASI Robert S (agent), Testa, Hurwitz & Thibeault, LLP, High Street
Tower, 125 High Street, Boston, MA 02110, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200379212 A1 20030925 (WO 0379212)

Application: WO 2003US7965 20030314 (PCT/WO US0307965)

Priority Application: US 200298157 20020314

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PH PL PT RO RU SC SD SE SG SK SL TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT RO SE SI SK TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English Filing Language: English

Fulltext Word Count: 15775

Main International Patent Class: G06F-015/16 International Patent Class: G06F-013/00

Fulltext Availability: Detailed Description

# Detailed Description

... the client node 105 has the appropriate graphics library(ies) 180 installed to perform the **decompression algorithms**, the client agent 175 uses the library 180 to decompress the compressed format of the... display 145.

[00491 In one embodiment, the client agent 175 does not contain all the decompression algorithms to decompress the non-textual element from a compressed format into a bitmap representation. If the client node 105

does not have the appropriate graphics library(ies) 180 installed to perform the **decompression** algorithms, the client agent 175 requests the needed graphics library from ...456, the intercepted first decompressed data set.

A variety of compression techniques, including both lossy compression techniques and lossless compression techniques, may be used by the second output filter module 35513, at step 456, to...

8/3,K/15 (Item 5 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00997881 \*\*Image available\*\*

SYSTEM AND METHOD FOR COMMUNICATING MEDIA SIGNALS SYSTEME ET PROCEDE DE COMMUNICATION DE SIGNAUX MULTIMEDIA

Patent Applicant/Inventor:

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INGRAHAM Robert Walter, 127 Honey Cook Circle, Folsom, CA 95630, US, US
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Legal Representative:

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200327876 Al 20030403 (WO 0327876)

Application: WO 2002US30874 20020926 (PCT/WO US0230874)

Priority Application: US 2001325483 20010926

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SK TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English Filing Language: English Fulltext Word Count: 33236

Main International Patent Class: G06F-015/16

Fulltext Availability: Detailed Description

#### Detailed Description

... has been developed for public consumption and development. Similar to GIF, PNG is considered a "lossless" compression fori-nat, and therefore all image information is restored when a compressed -file is decompressed...into a preferred source input forinat for compression using a combination of unique lossy and lossless digital compression techniques including sub-band coding, wavelet transforins, motion detection, run length coding and variable length...neural networks for the purpose of error correction during use of certain 1 5 specified lossless compression CODECS. For example, a learning system is employed to determine a difference between what was...instead of the

pulse code modulation ("PCM") and filtering used by standard CDs. DSD uses lossless compression and a sampling rate of about 2.8 M11z to improve the complexity and realism...video signal) and with externally imposed constraints to optimally choose a preferred commercially available compression/decompression algorithm (e.g. CODEC) for each segment of the data. The system 400 then ...device decompresses the data stream that is composed of segment-by-segment variations in compression/decompression algorithm and settings thereof. Dependent upon the terminal device 1 0 configuration, and especially for very thin clients, instructions may be refreshed on a segment-bysegment basis for each decompression algorithm and encoding setting combination. Instructions for decompressing may also be kept resident if appropriate to...

8/3,K/16 (Item 6 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00991779 \*\*Image available\*\*

A SYSTEM AND METHOD FOR PROTECTING THE CONTENT OF DIGITAL CINEMA PRODUCTS SYSTEME ET PROCEDE DE PROTECTION DU CONTENU DE PRODUITS CINEMATOGRAPHIQUES NUMERIQUES

Patent Applicant/Inventor:

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Legal Representative:

ROBERTS Jon (et al) (agent), Roberts Abokhair & Mardula, LLC, Suite 1000, 11800 Sunrise Valley Drive, Reston, VA 20191, US,

Patent and Priority Information (Country, Number, Date):

Patent:

WO 200321861 A1 20030313 (WO 0321861)

Application: WO 2002US27842 20020830 (PCT/WO US0227842)

Priority Application: US 2001316020 20010831

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW

(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SK TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English Fulltext Word Count: 7532

International Patent Class: G06F-011/30

Fulltext Availability: Detailed Description

# Detailed Description

... The present state of the art for the content protection of digital cinema products uses lossless compression, 128 bit block cipher decryption at rates ...the digital cinema product was compressed 162, the user then uses the previously selected compression algorithm 165 to decompress the digital cinema product 170. Otherwise, no decompression of the digital cinema product is required...

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8/3,K/17
              (Item 7 from file: 349)
DIALOG(R) File 349: PCT FULLTEXT
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            **Image available**
00988589
PRINTER INCLUDING PRINTHEAD CAPPING MECHANISM
IMPRIMANTE COMPRENANT UN MECANISME DE COIFFE DE TETE D'IMPRESSION
Patent Applicant/Assignee:
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    Wales 2041, AU, AU (Residence), AU (Nationality), (For all designated
    states except: US)
Patent Applicant/Inventor:
  SILVERBROOK Kia, Silverbrook Research Pty Ltd, 393 Darling Street,
    Balmain, New South Wales 2041, AU, AU (Residence), AU (Nationality),
    (Designated only for: US)
Legal Representative:
  SILVERBROOK Kia (agent), Silverbrook Research Pty Ltd, 393 Darling
    Street, Balmain, New South Wales 2041, AU,
Patent and Priority Information (Country, Number, Date):
  Patent:
                        WO 200318316 A1 20030306 (WO 0318316)
  Application:
                        WO 2002AU1060 20020806 (PCT/WO AU0201060)
  Priority Application: US 2001942603 20010831
Designated States:
(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)
  AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ
  EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
  LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI
  SK SL TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW
  (EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SK TR
  (OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 26953
Main International Patent Class: B41J-002/165
Fulltext Availability:
  Detailed Description
Detailed Description
... fully acceptable 800 dpi. This yields a bi-level image of 7. IMB,
  requiting a lossless compression ratio of less than 2.5: 1 to fit
  within the 3MB/page limit. We...of one bits or zero bits which represent
  the corresponding part of the image. The decompression algorithm is
  also defined
  in Section 5 3
 to The EEU
              (Item 8 from file: 349)
 8/3,K/18
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00908856 \*\*Image available\*\*
SYSTEM AND METHOD FOR VIRUS PROTECTION IN REAL-TIME MEDIA

DIALOG(R) File 349: PCT FULLTEXT

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SYSTEME ET PROCEDE DE PROTECTION CONTRE LES VIRUS DE MEDIAS TEMPS REEL

Patent Applicant/Assignee:

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Inventor(s):

PACHOLEC Don, 17510 Via Sereno, Monte Sereno, CA 95030, US, KUMAR Sanjeev, 19600 NE 143rd Street, Woodinville, WA 98072, US, Legal Representative:

LOHSE Timothy W (agent), Gray Cary Ware & Freidenrich LLP, 1755 Embarcadero Road, Palo Alto, CA 94303-3340, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200242879 A2-A3 20020530 (WO 0242879)
Application: WO 2001US45125 20011024 (PCT/WO US0145125)

Priority Application: US 2000699292 20001027

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AL; AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

- (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
- (OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
- (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
- (EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English Fulltext Word Count: 2649

Main International Patent Class: G06F-011/30

Fulltext Availability: Detailed Description

Detailed Description

... or video information needs to be compressed and optimized with various codecs I O (compression- decompression encoding algorithms ).

Compression schemes can be classified as "lossy" or " lossless ." Lossy compression schemes reduce file size by discarding some amount of data during the encoding process before...

...lies in the smaller file size that results from discarding the "lost" information. In contrast, lossless compression squeezes data into smaller packets of information without permanently discarding any of the data. Instead of permanently discarding information, for example, lossless compression discards it temporarily but provides a "map" with which the codec can reconstruct the original file. Both "lossy" and "lossless " compression may be used by various streaming protocols.

Due to the electronic nature of the Internet...

8/3,K/19 (Item 9 from file: 349)

DIALOG(R) File 349:PCT FULLTEXT

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00895520 \*\*Image available\*\*

ENHANCED BOOLEAN PROCESSOR WITH PARALLEL INPUT PROCESSEUR BOOLEEN A ENTREE PARALLELE AMELIORE Patent Applicant/Assignee:

```
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    (Residence), US (Nationality)
Inventor(s):
  ROSS Jay Bruce, 275 Colt Street, Pennington, NJ, US,
Legal Representative:
  HOWISON Gregory M (et al) (agent), Howison, Chauza, Thoma, Handley &
    Arnott, L.L.P., P.O. Box 741715, Dallas, TX 75374-1715, US,
Patent and Priority Information (Country, Number, Date):
                        WO 200229643 A1 20020411 (WO 0229643)
  Patent:
  Application:
                        WO 2001US31714 20011005 (PCT/WO US0131714)
  Priority Application: US 2000684761 20001006
Designated States:
(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)
  AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ
  EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
  LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL
  TJ TM TR TT TZ UA UG UZ VN YU ZA ZW
  (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
  (OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 35643
Main International Patent Class: G06F-017/30
Fulltext Availability:
  Detailed Description
Detailed Description
... not only displaces available bandwidth, but also requires
  significantly more storage space. However, a compression/ decompression
  algorithm which is cumbersome to implement may actually offset any gains
  obtained by compressing the information...
...provides significant data compression for repeating characters or
  patterns. It uses very simple compression and decompression
  . Most run-length compression schemes are usually based on Huffman
  entropy coding techniques. A Huffinan code is a lossless data
  compression algorithm which uses a small number of bits to encode common
  characters.
 Huffinan coding...
              (Item 10 from file: 349)
 8/3,K/20
DIALOG(R) File 349: PCT FULLTEXT
(c) 2005 WIPO/Univentio. All rts. reserv.
00877759
SYSTEM AND METHOD FOR SERVING COMPRESSED CONTENT OVER A COMPUTER NETWORK
SYSTEME ET PROCEDE PERMETTANT DE PRENDRE EN CHARGE UN CONTENU COMPRESSE SUR
    UN RESEAU INFORMATIQUE
Patent Applicant/Assignee:
  REMOTE COMMUNICATIONS INC, 10721 Monaco Street, Littleton, CO 80124, US,
```

US (Residence), US (Nationality), (For all designated states except:

US)

Patent Applicant/Inventor:

CRANSTONE Peter J, 10721 Monaco Street, Littleton, CO 80124, US, US

(Residence), US (Nationality), (Designated only for: US)

KILEY Kevin J, Route 1, Box 325 B-1, Bigelow, AZ 72016, US, US (Residence), US (Nationality), (Designated only for: US)

Legal Representative:

COPPOLA Joseph V Sr (et al) (agent), Rader, Fishman and Grauer PLLC, Suite 140, 39533 Woodward Avenue, Bloomfield Hills, MI 48304, US,

Patent and Priority Information (Country, Number, Date):

Patent:

WO 200210929 A1 20020207 (WO 0210929)

Application: WO 2001US23490 20010726 (PCT/WO US0123490)

Priority Application: US 2000221411 20000728; US 2000703330 20001031

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English Fulltext Word Count: 10073

Main International Patent Class: G06F-013/00

Fulltext Availability: Detailed Description Claims

#### Detailed Description

... be provided as an adjunct to browser 30. Client module 28 provides a plurality of **decompression algorithms** corresponding to the compression routines available to compression server 24.

The decompressers may be public...

- ...described below, the architecture of server 24 and client module 28 make adding new compression/ decompression algorithms straightforward and fast—no change to web server 18 or user—agent 30 is required...The compression/decompression capabilities implemented on server 24 and user—agent 30, respectively, are generally lossless type compression approaches. That is, where data is concerned, exact recovery of the requested object at the...
- ...a lossy compression scheme (e.g., for a jpeg image file, \*.JPG). The default is lossless .

In step 48, compression server 24 determines a line speed associated with useragent 30. It is desirable for compression...

#### Claim

... of the object in the compression time.

10 The method of claim I wherein the **compression** is **lossless** . It. The method of claim I wherein a client computer on which the user-agent...

(Item 11 from file: 349) DIALOG(R) File 349: PCT FULLTEXT (c) 2005 WIPO/Univentio. All rts. reserv. 00791003 \*\*Image available\*\* DCT DOMAIN CONVERSION OF A VIDEO SIGNAL TO A LOWER DEFINITION SIGNAL CONVERSION DE DOMAINE TCD D'UN SIGNAL VIDEO EN UN SIGNAL A DEFINITION REDUITE Patent Applicant/Assignee: CONEXANT SYSTEMS INC, 4311 Jamboree Road, Newport Beach, CA 92660, US, US (Residence), US (Nationality) Inventor(s): AZADEGAN Faramarz, Apartment 447, 5365 Toscana Way, San Diego, CA 92122, LENGWEHASATIT Krisda, 1177 W. 28th Street, #5, Los Angeles, CA 90007, US, Legal Representative: RITTMASTER Ted R (agent), Foley & Lardner, Suite 3500, 2029 Century Park East, Los Angeles, CA 90067-3021, US, Patent and Priority Information (Country, Number, Date): WO 200124532 A1 20010405 (WO 0124532) Patent: WO 2000US26662 20000928 (PCT/WO US0026662) Application: Priority Application: US 99409823 19990930 (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE Publication Language: English Filing Language: English Fulltext Word Count: 12812 ... International Patent Class: G06F-017/14 Fulltext Availability: Detailed Description Detailed Description ... of an embodiment of the present invention, Figure 21 is an illustration of an exemplary lossless compression of reference frames for motion compensation, in accordance with the principles of an embodiment of...between different MPEG-2 signals. Thus, this quantization must be removed, in order for the decompression hardware and algorithms to operate on a uniform bitstrearn. After the coefficients are inversely quantized, they are coupled... 8/3,K/22 (Item 12 from file: 349) DIALOG(R) File 349: PCT FULLTEXT (c) 2005 WIPO/Univentio. All rts. reserv. 00732607 PROGRESSIVE COMPRESSION OF TRIANGULAR MESHES COMPRESSION PROGRESSIVE DE MAILLAGES TRIANGULAIRES Patent Applicant/Assignee: RAMOT UNIVERSITY AUTHORITY FOR APPLIED RESEARCH AND INDUSTRIAL DEVELOPMENT LTD, P.O. Box 39296, 61392 Tel Aviv, IL, IL (Residence), IL (Nationality), (For all designated states except: US)

Patent Applicant/Inventor:

COHEN-OR Daniel, Elazar Street 3, 45242 Hod Hasharon, IL, IL (Residence), IL (Nationality), (Designated only for: US)

REMEZ Offir, Haharoshet Street 2, 52568 Ramat Gan, IL, IL (Residence), IL (Nationality), (Designated only for: US)

Legal Representative:

FRIEDMAN Mark M, Beit Samuellof, Haomanim 7, 67897 Tel Aviv, IL

Patent and Priority Information (Country, Number, Date):

Patent:
Application:

WO 200045237 A2 20000803 (WO 0045237)

WO 2000IL53 20000127 (PCT/WO IL0000053)

Priority Application: US 99117426 19990127

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

- (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
- (OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
- (AP) GH GM KE LS MW SD SL SZ TZ UG ZW
- (EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English Fulltext Word Count: 4669

Main International Patent Class: G06F Fulltext Availability:

Detailed Description

# French Abstract

...approximation. En outre, on associe aux triangles de remplacement un code couleur. On repete l'algorithme de compression autant de fois que necessaire. Afin de reconstruire la representation maillee originale, pour chaque remplacement...

# Detailed Description

... as large as the geometry data.

Mesh compression algorithms are normally required to use a lossless compression of the connectivity data.

Current mesh compression methods are based on the triangle-strips technique...

...terms of the number of triangles representing the mesh at various levels of detail. However, lossless compression methods of 3D meshes, which compress in terms of the total number of bits required...with a corresponding patch, and thereby producing a compressed mesh.

The present invention is a **lossless** compression method based on a multiresolution decomposition where the detail coefficients have a compact representation and...vector is [Mi] the number of triangles of the mesh, Mi. The vector is then **compressed** by some lossless **compression** technique. The preferred **lossless compression** technique is an LZ encoder.

During reconstruction, for each recovered patch we remove its triangles

. .

(Item 13 from file: 349) DIALOG(R) File 349: PCT FULLTEXT (c) 2005 WIPO/Univentio. All rts. reserv. 00572302 \*\*Image available\*\* A PRINTER FOR INCORPORATION INTO CONSUMER ELECTRONIC (CE) SYSTEMS WITH LIMITED ACCESS IMPRIMANTE A ACCES LIMITE POUVANT ETRE INTEGREE A DES SYSTEMES D'APPAREILS ELECTRONIQUES GRAND PUBLIC Patent Applicant/Assignee: SILVERBROOK RESEARCH PTY LTD, SILVERBROOK Kia, LAPSTUN Paul, WALMSLEY Simon Robert, KING Tobin, Inventor(s): SILVERBROOK Kia, LAPSTUN Paul, WALMSLEY Simon Robert, KING Tobin, Patent and Priority Information (Country, Number, Date): WO 200035675 A1 20000622 (WO 0035675) Patent: WO 99AU1023 19991118 (PCT/WO AU9901023) Application: Priority Application: AU 987737 19981216; AU 987738 19981216; AU 999961 19990423; AU 999962 19990423 Designated States: (Protection type is "patent" unless otherwise stated - for applications prior to 2004) AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW GH GM KE LS MW SD SL SZ TZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG Publication Language: English Fulltext Word Count: 39568 Main International Patent Class: B41J-002/00 Fulltext Availability: Detailed Description

#### Detailed Description

... rasterize text at 800 dpi. This yields a bi-level image of 7AMB, requiring a lossless compression ratio of less than 2.5A to fit within the 3MLB/page limit. We achieve...wrong" match to have a detrimental effect on the compression ratio.

For completeness the corresponding decompression algorithm is given below. It forms the core of the EDRL Expander unit in the printer...of one bits or zero bits which represent the corresponding part of the image. The decompression algorithm is defined in Section 6 3

The EEU 188 consists of a bitstream decoder 206...

(Item 14 from file: 349) 8/3, K/24DIALOG(R) File 349: PCT FULLTEXT (c) 2005 WIPO/Univentio. All rts. reserv.

00564267 \*\*Image available\*\*

```
PRINTER AND METHODS OF OPERATION
IMPRIMANTE ET PROCEDES DE FONCTIONNEMENT
Patent Applicant/Assignee:
  SILVERBROOK RESEARCH PTY LTD,
  SILVERBROOK Kia,
  LAPSTUN Paul,
 WALMSLEY Simon Robert,
Inventor(s):
  SILVERBROOK Kia,
  LAPSTUN Paul,
 WALMSLEY Simon Robert,
Patent and Priority Information (Country, Number, Date):
                        WO 200027640 A1 20000518 (WO 0027640)
  Patent:
                        WO 99AU984 19991109 (PCT/WO AU9900984)
 Application:
 Priority Application: AU 987024 19981109; AU 987025 19981109
Designated States:
(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)
 AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB
  GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA
 MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA
 UG US UZ VN YU ZA ZW GH GM KE LS MW SD SL SZ TZ UG ZW AM AZ BY KG KZ MD
  RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF
 CG CI CM GA GN GW ML MR NE SN TD TG
Publication Language: English
Fulltext Word Count: 43939
Main International Patent Class: B41J-002/07
International Patent Class: B41J-002/14 ...
... B41J-002/165 ...
... B41J-002/21 ...
... G06F-003/12 ...
... G06F-015/167
Fulltext Availability:
 Detailed Description
Detailed Description
... fully acceptable 800 dpi. This yields a bi-level image of 7.1NM.
 requiring a lossless compression ratio of less than 2.5:1 to fit
 within
 the 3MB/page limit. We...wrong" match to have a detrimental effect on the
  compression ratio.
 For completeness the corresponding decompression
                                                      algorithm is given
 below. It forms the core of the EDRL Expander unit in the printer...of
 one bits or zero bits which
  represent the corresponding part of the image. The decompression
  algorithm
  is also defined in Section 5 3
  The EEU consists of a bitstream decoder 154...
```

8/3,K/25 (Item 15 from file: 349) DIALOG(R)File 349:PCT FULLTEXT (c) 2005 WIPO/Univentio. All rts. reserv.

00561855 \*\*Image available\*\*

METHOD AND APPARATUS FOR PRIORITY TRANSMISSION AND DISPLAY OF KEY AREAS OF IMAGE DATA

PROCEDE ET APPAREIL DE TRANSMISSION PRIORITAIRE ET AFFICHAGE DES ZONES CLES DE DONNEES D'IMAGES

Patent Applicant/Assignee:

INTERNATIONAL BUSINESS MACHINES CORPORATION,

Inventor(s):

BEACH Mark J,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200025228 Al 20000504 (WO 0025228)

Application: WO 99US3999 19990224 (PCT/WO US9903999)

Priority Application: US 98181402 19981028

Designated States:

(Protection type is "patent" unless otherwise stated - for applications

prior to 2004)

CN JP KR

Publication Language: English Fulltext Word Count: 10155

Main International Patent Class: G06F-015/16

Fulltext Availability: Detailed Description

Detailed Description

... the normal, noncompressed image's file.

Data compression can be split into two large classes, lossless and lossy. Lossless compression means that the picture, and each digital number that represents a particular color for each...

- ...that the original and decompressed images will be the same. A picture that has been **compressed** and decompressed using **lossless compression** will be mathematically and pictorially equivalent to the original picture. Compression and decompression of an...
- ...will tend to be correctly reconstructed in a viewer's mind.

One of the simplest lossless compression schemes is Run Length Encoding (RLE). RLE is effective when there are series of ones...topmost section and ending with the bottom most section. JPEG can be made to be lossless, but the best compression occurs with lossy compression.

2. Detailed Description

The current invention allows certain parts of an...are needed for decoding compression

routines. For instance, the Lempel-Ziv-Welch (LZW)

compression and **decompression algorithm** could be used in GIF files. All needed routines and software necessary to support the

```
(Item 16 from file: 349)
DIALOG(R) File 349: PCT FULLTEXT
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            **Image available**
00554357
METHOD OF COMPRESSING AND DECOMPRESSING GRAPHIC IMAGES
PROCEDE DE COMPRESSION ET DE DECOMPRESSION D'IMAGES GRAPHIQUES
Patent Applicant/Assignee:
  FUJITSU MICROELECTRONICS INC,
Inventor(s):
  OSTROVSKY Alex,
Patent and Priority Information (Country, Number, Date):
                        WO 200017730 A2 20000330 (WO 0017730)
  Patent:
                        WO 99US22081 19990923 (PCT/WO US9922081)
  Application:
  Priority Application: US 98160504 19980924
Designated States:
(Protection type is "patent" unless otherwise stated - for applications
prior to 2004).
  JP KR AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
Publication Language: English
Fulltext Word Count: 9185
Main International Patent Class: G06F
Fulltext Availability:
  Detailed Description
Detailed Description
... compression methods reduce the size of the image by disregarding some
  pictorial information. In contrast, lossless compression methods
  reduce the number of bits an image would normally require without losing
  any data...in the block. In one embodiment of the invention, the epsilon
  value equals zero when lossless
                                     compression is desired.
  In another embodiment of the invention, the epsilon value is further
  adjusted based...
...of a process for decompressing previously compressed image data. A "C"
  language implementation of the decompression algorithm of the present
  invention is disclosed in Appendix B. The decompression steps are usually
  performed...cpp VERSION 04/23/1998
  //FMI.3D-Multimedia. Architectural group. A.Ostrovsky.
  //FMI propriatory Compression/ Decompression
                                                 algorithms . CONFIDENTIAL
  #define UC unsigned char
  #define ULI unsigned long int
  #define FL float
  int WorkBits...
 8/3,K/27
              (Item 17 from file: 349)
DIALOG(R) File 349: PCT FULLTEXT
(c) 2005 WIPO/Univentio. All rts. reserv.
00541069
           **Image available**
REDUCED OVERHEAD TEXT MESSAGING
MESSAGERIE TEXTUELLE A TEMPS SYSTEME REDUIT
Patent Applicant/Assignee:
```

MOTOROLA INC, Inventor(s):

WANG Zhonghe, CHANG Ying-Yueh,

SCHWENDEMAN Robert John,

Patent and Priority Information (Country, Number, Date):
Patent: WO 200004442 A1 20000127 (WO 0004442)

Application: WO 99US13293 19990611 (PCT/WO US9913293) Priority Application: US 98115445 19980714

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AU BR CA MX ZA AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Publication Language: English Fulltext Word Count: 23039

Main International Patent Class: G06F-005/00

Fulltext Availability: Detailed Description Claims

#### English Abstract

A reduced overhead text messaging system (900) has a **lossless** compression engine (1104) that operates on an original message to generate a compressed message. The compressed...

Detailed Description ... unit(s) or pagers.

A second aspect of the invention involves the inclusion of a **lossless** compression engine, preferably in the paging terminal, for selectively compressing messages received from the originator or...

...and the decompression engine associated with the messaging unit or pager accommodating a plurality of **compression** procedures. These **compression** procedures comprise both **lossless** or lossy **compression** schemes, as appropriate for the information being compressed.

A sixth aspect of the invention involves...send compressed messages over the air to wireless applications. It uses a token-based data **compression** techniques for **lossless** (i.e., the decompressed message is identical to the pre-compressed message) message transmissions. It...message. This field is comprised of tokens that are interpreted sequentially according to the compression **algorithm** to **decompress** the message.

Token Text Compression Data Types
There are six data types defined in the...

#### Claim

- 1. A reduced overhead text messaging system comprising:
- a **lossless** compression engine that operates on an original message to generate a compressed message including at least...that receives the original message and a destination identifier and generates, in conjunction with the **lossless** compression engine, a compressed message including a selective call address.
- 42 The reduced overhead text messaging system according to...

8/3,K/28 (Item 18 from file: 349)

```
DIALOG(R) File 349: PCT FULLTEXT
(c) 2005 WIPO/Univentio. All rts. reserv.
            **Image available**
00428799
DATA DISTRIBUTION SYSTEM
SYSTEME DE DISTRIBUTION DE DONNEES
Patent Applicant/Assignee:
  ALGOTEC SYSTEMS LTD,
  BENJAMIN Menashe,
  ELAD Michael,
  BAR-SELA Ran,
  REICHMAN Yosef,
 MARGOLIN Jacob,
Inventor(s):
  BENJAMIN Menashe,
  ELAD Michael,
  BAR-SELA Ran,
  REICHMAN Yosef,
 MARGOLIN Jacob,
Patent and Priority Information (Country, Number, Date):
                        WO 9819263 A1 19980507
  Patent:
                        WO 97IL349 19971029 (PCT/WO IL9700349)
  Application:
  Priority Application: IL 119523 19961030
Designated States:
(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)
  AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH HU
  ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ
  PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW GH KE LS
 MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH DE DK ES FI FR GB GR
  IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG
Publication Language: English
Fulltext Word Count: 10767
Main International Patent Class: G06F-019/00
Fulltext Availability:
  Detailed Description
Detailed Description
```

- ... taken if lossy compression is implemented, due to the potential loss of possibly vital findings. Lossless compression schemes are therefore employed, which provide a relatively small reduction of image transmission time (a...actual transmission of the medical image information is accomplished through the use of a compression/ decompression algorithm and a powerful client/server protocol. The transmission is relatively fast owing to a smart...
- ...letting the user refine the information query parameters during the acquisition process itself. The compression- decompression algorithm is basic to the explanation of the user/server acquisition protocol. Therefore, this general description will start with an explanation of the compression- decompression algorithm followed by a discussion of the acquisition protocol and conclude with a more detailed review of the ManMachine Interface.
  - 2, The Compression- Decompression Algorithm

    The goal of the compression- decompression algorithm is to achieve maximal compression ratios but at the same time supply the user with the compression- decompression algorithm for use with the system described. Compression starts by (optional) segmentation (block Al in the

... Fig. 4). An example of a possible partitioning is shown in Fig. 1 0.

The **decompression** algorithm is basically the compression operations in inverse order.

First, a header is obtained, stating whether...

8/3,K/29 (Item 19 from file: 349)

DIALOG(R) File 349: PCT FULLTEXT

(c) 2005 WIPO/Univentio. All rts. reserv.

00374271 \*\*Image available\*\*

APPARATUS AND METHOD FOR TWO-DIMENSIONAL DATA COMPRESSION
APPAREIL ET PROCEDE POUR COMPRESSION BIDIMENSIONNELLE DE DONNEES

Patent Applicant/Assignee:

JOHNSON-GRACE COMPANY,

Inventor(s):

HOULE Paul,

Patent and Priority Information (Country, Number, Date):

Patent:

WO 9715014 A1 19970424

Application: WO 96US16909 19961021 (PCT/WO US9616909)

Priority Application: US 95545513 19951019

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AU BR CA JP MX AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Publication Language: English

Fulltext Word Count: 24844

Main International Patent Class: G06F-017/00

Fulltext Availability:

Detailed Description

Claims

Detailed Description

... a "Match"

The method of the present invention can provide for lossy as well as lossless compression. For lossless compression, two pixels are considered "matching" only if they are identical. In lossy compression, two pixels...For example, the pixel string may be as follows (assuming the digits below is represent pixel values).

#### 43210210321098798711111

Assurrdng **lossless compressi**on , the above **pixel** string might be encoded as the following list of elements (where "." indicates that a literal...

...1 .0 [393] (714] 8 .7 [323] .1 [194]

The above is an example of **lossless** compression, but it should be understood that the present invention can be used for lossy compression ...

#### Claim

... encoded image data; and

- (e) decoding the stream of encoded image data using a Huffirian decompression algorithm to obtain a decoded stream of image data.
- 33 The method of claim 32, further...a decoder for decoding the stream of

encoded image data using a Huffinan 1 5 decompression obtain a decoded stream of image data. 68 The system of claim 67, further... (Item 20 from file: 349) 8/3,K/30 DIALOG(R) File 349: PCT FULLTEXT (c) 2005 WIPO/Univentio. All rts. reserv. TRY-BEFORE-YOU-BUY SOFTWARE DISTRIBUTION AND MARKETING SYSTEM SYSTEME DE DISTRIBUTION ET DE VENTE A L'ESSAI DE LOGICIELS Patent Applicant/Assignee: DIGITAL RIVER INC, Inventor(s): RONNING Joel A, Patent and Priority Information (Country, Number, Date): Patent: WO 9641449 A1 19961219 WO 96US9916 19960607 (PCT/WO US9609916) Application: Priority Application: US 95488195 19950607 Designated States: (Protection type is "patent" unless otherwise stated - for applications prior to 2004) AL AM AT AU AZ BB BG BR BY CA CH CN CZ DE DK EE ES FI GB GE HU IL IS JP KE KG KP KR KZ LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TR TT UA UG UZ VN KE LS MW SD SZ UG AM AZ BY KG KZ MD RU TJ TM AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG Publication Language: English Fulltext Word Count: 16479 ... International Patent Class: G06F-09:00 ... ... G06F-15:00 Fulltext Availability: Detailed Description Detailed Description ... system also decompresses the sectors while reading them. An example of an asymmetrical compression/ decompression algorithm , which produces a relatively short decompression time in comparison to compression time, is Apple Computer, Inc.'s Cinepak compression scheme at a lossless If the flag value has not been updated, the system determines if this is... The packages are typically compressed for transmission using, for example, Apple Computer, Inc.'s Cinepak compression scheme at a lossless level, and are transmitted using TC/IP protocol The system then determines if the loaded... This file is typically compression for transmission using, for example, Apple Computer, Inc.'s Cinepak compression scheme at a lossless level, and is transmitted using TC/IP protocol

The system then, as described above, checks...The packages are typically compressed for transmission using, for example, Apple Computer, Inc.'s Cinepak

compression scheme at a lossless level, and are transmitted using TC/IP protocol. If a user requests to sample a...

```
? show files; ds; save temp; logoff hold
       2:INSPEC 1969-2005/Jun W1
File
         (c) 2005 Institution of Electrical Engineers
File
       6:NTIS 1964-2005/Jun W1
         (c) 2005 NTIS, Intl Cpyrght All Rights Res
       8:Ei Compendex(R) 1970-2005/Jun W1
File
         (c) 2005 Elsevier Eng. Info. Inc.
File
      34:SciSearch(R) Cited Ref Sci 1990-2005/Jun W1
         (c) 2005 Inst for Sci Info
File
      35:Dissertation Abs Online 1861-2005/May
         (c) 2005 ProQuest Info&Learning
      65:Inside Conferences 1993-2005/Jun W2
File
         (c) 2005 BLDSC all rts. reserv.
      92:IHS Intl.Stds.& Specs. 1999/Nov
File
         (c) 1999 Information Handling Services
      94:JICST-EPlus 1985-2005/Apr W4
File
         (c) 2005 Japan Science and Tech Corp(JST)
      95:TEME-Technology & Management 1989-2005/May W2
File
         (c) 2005 FIZ TECHNIK
      99:Wilson Appl. Sci & Tech Abs 1983-2005/May
         (c) 2005 The HW Wilson Co.
File 144: Pascal 1973-2005/Jun W1
         (c) 2005 INIST/CNRS
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
         (c) 1998 Inst for Sci Info
File 583: Gale Group Globalbase (TM) 1986-2002/Dec 13
         (c) 2002 The Gale Group
File 603:Newspaper Abstracts 1984-1988
         (c) 2001 ProQuest Info&Learning
File 483: Newspaper Abs Daily 1986-2005/Jun 07
         (c) 2005 ProQuest Info&Learning
Set
        Items
                Description
                FX(3N)(DECOMPRESS? OR DE()COMPRESS? OR ALGORITHM ?) OR (DE-
S1
          628
             COMPRESS? OR DE()COMPRESS?)(3N) ALGORITHM?
52
                LOSSLESS(3N)(PIXEL OR PIXEL(3N)PIXEL) OR LOSSLESS(3N)(COMP-
             RESS? OR DE()COMPRESS?) OR LOSSLESS(3N)PIXEL(3N)DECOMPRESS?
                AU=(CLOUTHIER, S? OR CLOUTHIER S? OR BENEAR, R? OR BENEAR
S3
         3684
              R? OR FISCHER, T? OR FISCHER T?)
            0
                S3 AND S1
S4
S5
           45
                S1 AND S2
```

S6

26

RD (unique items)

6/3,K/1 (Item 1 from file: 2)

DIALOG(R) File 2:INSPEC

(c) 2005 Institution of Electrical Engineers. All rts. reserv.

8263971 INSPEC Abstract Number: B2005-03-6120B-045

Title: Universal variable-length data compression of binary sources using fountain codes

Author(s): Caire, G.; Shamai, S.; Shokrollahi, A.; Verdu, S.

Author Affiliation: Inst. Eurecom, France

Conference Title: 2004 IEEE Information Theory Workshop (IEEE Cat. No.04EX944) p.123-8

Publisher: IEEE, Piscataway, NJ, USA

Publication Date: 2004 Country of Publication: USA xii+472 pp.

ISBN: 0 7803 8720 1 Material Identity Number: XX-2005-00111

U.S. Copyright Clearance Center Code: 0-7803-8720-1/04/\$20.00

Conference Title: 2004 IEEE Information Theory Workshop

Conference Date: 24-29 Oct. 2004 Conference Location: San Antonio, TX, USA

Language: English

Subfile: B

Copyright 2005, IEE

Abstract: This paper proposes a universal variable-length lossless compression algorithm based on fountain codes. The compressor concatenates the Burrows-Wheeler block sorting transform (BWT) with a fountain encoder, together with the closed-loop iterative doping algorithm. The decompressor uses a belief propagation algorithm in conjunction with the iterative doping algorithm and the inverse...

...Identifiers: lossless compression algorithm

# 6/3,K/2 (Item 2 from file: 2)

DIALOG(R) File 2: INSPEC

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8076590 INSPEC Abstract Number: B2004-10-6135C-091, C2004-10-5260B-197
Title: Learning how to compress from correlated examples: the lossless case

Author(s): Carpentieri, B.

Author Affiliation: Dipt. di Informatica ed Applicazioni "R.M. Capocelli", Universita di Salerno, Baronissi, Italy

Journal: WSEAS Transactions on Systems vol.2, no.4 p.856-60

Publisher: WSEAS,

Publication Date: Oct. 2003 Country of Publication: Greece

ISSN: 1109-2777

SICI: 1109-2777(200310)2:4L.856:LCFC;1-Q Material Identity Number: I386-2004-004

Language: English

Subfile: B C

Copyright 2004, IEE

Abstract: Today the efficiency of the state of the art lossless data compression algorithms is very close to the theoretical limit: the entropy of the transmitting source. On...

... our knowledge of messages we have already compressed from the same source and to design algorithms that compress or decompress given this

knowledge; in this way the theoretical limit, the conditional entropy, allows for better...

Identifiers: lossless compression;

## 6/3,K/3 (Item 3 from file: 2)

DIALOG(R) File 2: INSPEC

(c) 2005 Institution of Electrical Engineers. All rts. reserv.

7831717 INSPEC Abstract Number: B2004-02-6135C-076, C2004-02-5260B-275

Title: Lossless data compression methods based on neural network

Author(s): Yang Guowei; Li Zhengxi; Tu Xuyan

Author Affiliation: Comput. Center, Teacher's Coll. of Qingdao Univ., China

Conference Title: ICCT 2003. 2003 International Conference on Communication Technology. Proceedings (IEEE Cat. No.03EX659) Part vol.2 p.1899-902 vol.2

Publisher: Beijing Univ. Posts & Telecommun. Press, Beijing, China

Publication Date: 2003 Country of Publication: China 2 vol.1945 pp.

ISBN: 7 5635 0686 1 Material Identity Number: XX-2003-02143

Conference Title: ICCT 2003 - International Conference on Communication Technology

Conference Sponsor: China Inst. Commun. (CIC); Chinese Inst. Electron. CIE)

Conference Date: 9-11 April 2003 Conference Location: Beijing, China

Language: English

Subfile: B C

Copyright 2004, IEE

Title: Lossless data compression methods based on neural network
Abstract: No lossless data compression method based on neural network
has been found before. A lossless compression method based on BP
network for the long character-string of 0 and 1 is...

... linear approximation capability of concrete three-layer BP network in this paper. The compression and decompression algorithms of the lossless compression method are provided. Experiments show that the compression ratio of the lossless compression method is usually around 16/11 and the method can effectively compress the data which... Identifiers: lossless data compression method...

#### ... decompression algorithm;

#### 6/3,K/4 (Item 4 from file: 2)

DIALOG(R) File 2: INSPEC

(c) 2005 Institution of Electrical Engineers. All rts. reserv.

7100315 INSPEC Abstract Number: B2002-01-6135C-030, C2002-01-5260B-083

Title: Architecture for hardware compression/decompression of large images
Author(s): Akil, M.; Perroton, L.; Gaillhard, S.; Denoulet, J.; Bartier,
F.

Author Affiliation: Lab. A2SI, ESIEE, Noisy-Le-Grand, France Journal: Proceedings of the SPIE - The International Society for Optical Engineering Conference Title: Proc. SPIE - Int. Soc. Opt. Eng. (USA) vol.4303 p.51-8

Publisher: SPIE-Int. Soc. Opt. Eng,

Publication Date: 2001 Country of Publication: USA

CODEN: PSISDG ISSN: 0277-786X

SICI: 0277-786X(2001)4303L.51:AHCD;1-T Material Identity Number: C574-2001-254

U.S. Copyright Clearance Center Code: 0277-786X/01/\$15.00

Conference Title: Real-Time Imaging V

Conference Sponsor: SPIE; Soc. Imaging Sci. & Technol

Conference Date: 24-25 Jan. 2001 Conference Location: San Jose, CA, USA

Language: English

Subfile: B C

Copyright 2001, IEE

Abstract: In this article, we present a popular lossless compression / decompression algorithm, GZIP, and the study to implement it on a FPGA based architecture. The algorithm is...

... Identifiers: lossless compression;

#### 6/3,K/5 (Item 5 from file: 2)

DIALOG(R) File 2:INSPEC

(c) 2005 Institution of Electrical Engineers. All rts. reserv.

7023702 INSPEC Abstract Number: B2001-10-1265A-039, C2001-10-5210B-025
Title: A geometric-primitives-based compression scheme for testing systems-on-a-chip

Author(s): El-Maleh, A.; al Zahir, S.; Khan, E.

Author Affiliation: King Fahd Univ. of Pet. & Miner., Dhahran, Saudi Arabia

Conference Title: Proceedings 19th IEEE VLSI Test Symposium. VTS 2001 p.54-9

Publisher: IEEE Comput. Soc, Los Alamitos, CA, USA

Publication Date: 2001 Country of Publication: USA xxxiii+415 pp.

ISBN: 0 7695 1122 8 Material Identity Number: XX-2001-00938

U.S. Copyright Clearance Center Code: 1093 0167/2001/\$10.00

Conference Title: Proceedings 19th IEEE VLSI Test Symposium. VTS 2001

Conference Sponsor: IEEE Comput. Soc. Test Technol. Tech. Council

Conference Date: 29 April-3 May 2001 Conference Location: Marina Del Rey, CA, USA

Language: English

Subfile: B C

Copyright 2001, IEE

... Abstract: for test data reduction imperative. In this paper we introduce a novel and very efficient **lossless compression** technique for testing systems-on-a-chip based on geometric shapes. The technique exploits reordering...

... this paper, it is assumed that an embedded core will be used to execute the decompression algorithm and decompress the test data.

... Identifiers: lossless compression technique...

... decompression algorithm

# 6/3,K/6 (Item 6 from file: 2)

DIALOG(R) File 2: INSPEC

(c) 2005 Institution of Electrical Engineers. All rts. reserv.

6983820 INSPEC Abstract Number: B2001-08-6135C-095, C2001-08-5260B-285

# Title: Block-based adaptive lossless image coder Author(s): Sudharsanan, S.; Sriram, P.

Author Affiliation: Sun Microsyst. Inc., Palo Alto, CA, USA

Conference Title: Proceedings 2000 International Conference on Image Processing (Cat. No.00CH37101) Part vol.1 p.120-3 vol.1

Publisher: IEEE, Piscataway, NJ, USA

Publication Date: 2000 Country of Publication: USA vol.(lxviii+1027+957+1000) pp.

ISBN: 0 7803 6297 7 Material Identity Number: XX-1999-03584 U.S. Copyright Clearance Center Code: 0 7803 6297 7/2000/\$10.00

Conference Title: Proceedings of 7th IEEE International Conference on Image Processing

Conference Sponsor: IEEE Signal Process. Soc

Conference Date: 10-13 Sept. 2000 Conference Location: Vancouver, BC, Canada

Language: English Subfile: B C

Copyright 2001, IEE

...Abstract: growth in the use of digital documents and photographic and medical images, the interest in **lossless** image **compression** has increased. Coders, such as CALIC and JPEG-LS, using context modeling have raised the...

... required for these coders is significant and naturally serial. Parallelizable and compute efficient compression and **decompression** algorithms have attractive features such as cost effective hardware and scalable software implementations. Hence, we propose...

... Identifiers: lossless image compression; ...

... decompression algorithm;

#### 6/3,K/7 (Item 7 from file: 2)

DIALOG(R) File 2: INSPEC

(c) 2005 Institution of Electrical Engineers. All rts. reserv.

6918242 INSPEC Abstract Number: B2001-06-6135C-058, C2001-06-5260B-241

Title: Lossless image compression and encryption using SCAN

Author(s): Maniccam, S.S.; Bourbakis, N.G.

Author Affiliation: Dept. of Electr. Eng., Binghamton Univ., Binghamton, NY, USA

Journal: Pattern Recognition vol.34, no.6 p.1229-45

Publisher: Elsevier,

Publication Date: June 2001 Country of Publication: UK

CODEN: PTNRA8 ISSN: 0031-3203

SICI: 0031-3203(200106)34:6L.1229:LICE;1-E Material Identity Number: P133-2001-005

U.S. Copyright Clearance Center Code: 0031-3203/2001/\$20.00

Language: English Subfile: B C

Copyright 2001, IEE

Title: Lossless image compression and encryption using SCAN

Abstract: This paper presents a new methodology which performs both lossless compression and encryption of binary and gray-scale images. The compression and encryption schemes are based...

... paths or space filling curves. This paper presents a brief overview of SCAN, compression and decompression algorithms, encryption and

```
decrypting algorithms, and test results of the methodology.
  Identifiers: lossless image compression;
 6/3,K/8
             (Item 8 from file: 2)
DIALOG(R)File
               2: INSPEC
(c) 2005 Institution of Electrical Engineers. All rts. reserv.
          INSPEC Abstract Number: A2000-08-4230-020, B2000-04-6135C-268
 Title: High-quality still color image compression
 Author(s): Truchetet, F.; Joanne, B.; Perot, F.; Laligant, O.
 Author Affiliation: Bourgogne Univ., Creusot, France
  Journal: Optical Engineering
                                vol.39, no.2
                                                 p.409-14
  Publisher: SPIE,
  Publication Date: Feb. 2000 Country of Publication: USA
  CODEN: OPEGAR ISSN: 0091-3286
  SICI: 0091-3286(200002)39:2L.409:HQSC;1-T
 Material Identity Number: 0036-2000-003
 U.S. Copyright Clearance Center Code: 0091-3286/2000/$15.00
  Language: English
  Subfile: A B
 Copyright 2000, IEE
  ... Abstract: the transformed image tree can be pruned and the images
altered to obtain a compression/ decompression algorithm respectful of
human psychovisual image perception. The basic assumptions for human vision
on which the...
... color transformation used before applying wavelet packet transform. We
also point out that a quasi- lossless compression /decompression scheme
can be easily obtained with a compression ratio up to 1:10 (quantization...
  ...Identifiers: compression/ decompression
                                             algorithm ; ...
                    compression /decompression scheme
...quasi- lossless
             (Item 9 from file: 2)
 6/3,K/9
DIALOG(R)File
               2:INSPEC
(c) 2005 Institution of Electrical Engineers. All rts. reserv.
         INSPEC Abstract Number: C2000-01-6130B-085
 Title: Tetrahedral mesh compression with the cut-border machine
 Author(s): Gumhold, S.; Guthe, S.; Strasser, W.
 Author Affiliation: Tubingen Univ., Germany
 Conference Title: Proceedings Visualization '99 (Cat. No.99CB37067)
                                                                        р.
51-509
  Editor(s): Ebert, D.; Gross, M.; Hamann, B.
  Publisher: IEEE, Piscataway, NJ, USA
  Publication Date: 1999 Country of Publication: USA
                                                        565 pp.
  ISBN: 0 7803 5897 X Material Identity Number: XX-1999-03285
  U.S. Copyright Clearance Center Code: 0 7803 5897 X/99/$10.00
  Conference Title: Proceedings Visualization '99
 Conference Sponsor: IEEE Comput. Soc. Tech. Committee on Comput. Graphics
; ACM SIGGRAPH
  Conference Date: 24-29 Oct. 1999 Conference Location: San Francisco,
CA, USA
  Language: English
  Subfile: C
  Copyright 1999, IEE
```

...Abstract: mega-bytes of storage. For archivation and transmission compression algorithms are essential. In scientific applications lossless compression schemes are of primary interest. This paper introduces a new lossless compression scheme for the connectivity of tetrahedral meshes. Our technique can handle all tetrahedral meshes in three dimensional euclidean space even with non manifold border. We present compression and decompression algorithms which consume for reasonable meshes linear time in the number of tetrahedra. The connectivity is...

...Identifiers: lossless compression schemes

6/3,K/10 (Item 10 from file: 2)

DIALOG(R) File 2: INSPEC

(c) 2005 Institution of Electrical Engineers. All rts. reserv.

6431402 INSPEC Abstract Number: B2000-01-6135C-106, C2000-01-5260B-274

Title: SCAN based lossless image compression and encryption

Author(s): Maniccam, S.S.; Bourbakis, N.G.

Author Affiliation: Dept. of Electr. Eng., Binghampton Univ., NY, USA Conference Title: Proceedings 1999 International Conference on Information Intelligence and Systems (Cat. No.PR00446) p.490-9

Publisher: IEEE Comput. Soc, Los Alamitos, CA, USA

Publication Date: 1999 Country of Publication: USA xvii+691 pp.

ISBN: 0 7695 0446 9 Material Identity Number: XX-1999-03204

U.S. Copyright Clearance Center Code: 0 7695 0446 9/99/\$10.00

Conference Title: Proceedings 1999 International Conference on Information Intelligence and Systems

Conference Sponsor: IEEE Comput. Soc.; IEEE Comput. Soc. Virtual Intelligence Task Force; IEEE Comput. Soc. Conference on Tools with AI; AAAI Soc.; IAPR Soc.; BU-CIS Center; Tech. Univ. Crete; Univ. Crete

Conference Date: 31 Oct.-3 Nov. 1999 Conference Location: Bethesda, MD, USA

Language: English

Subfile: B C

Copyright 1999, IEE

Title: SCAN based lossless image compression and encryption
Abstract: This paper presents a new methodology which performs both lossless compression and encryption of binary and gray scale images. The compression and encryption schemes are based...

... scanning paths or space filling curves. This paper presents compression specific SCAN language, compression and decompression algorithms, encryption and decryption algorithms, and test results of the methodology. Identifiers: SCAN based lossless image compression; ...

... decompression algorithms;

6/3,K/11 (Item 11 from file: 2)

DIALOG(R) File 2: INSPEC

(c) 2005 Institution of Electrical Engineers. All rts. reserv.

6006195 INSPEC Abstract Number: B9810-6140C-153, C9810-5260B-057

Title: Wavelet packets and multiresolution criterion for color image compression

Author(s): Truchetet, F.; Perot, F.; Laligant, O.

Author Affiliation: LE2I, Bourgogne Univ., Le Creusot, France

Journal: Proceedings of the SPIE - The International Society for Optical Engineering Conference Title: Proc. SPIE - Int. Soc. Opt. Eng. (USA) vol.3308 p.75-84

Publisher: SPIE-Int. Soc. Opt. Eng,

Publication Date: 1998 Country of Publication: USA

CODEN: PSISDG ISSN: 0277-786X

SICI: 0277-786X(1998)3308L.75:WPMC;1-6 Material Identity Number: C574-98075

U.S. Copyright Clearance Center Code: 0277-786X/98/\$10.00

Conference Title: Very High Resolution and Quality Imaging III

Conference Sponsor: SPIE; Soc. Imaging Sci. & Technol

Conference Date: 30 Jan. 1998 Conference Location: San Jose, CA, USA

Language: English

Subfile: B C

Copyright 1998, IEE

... Abstract: image tree can be pruned and the imagets altered in order to obtain a compression/ **decompression** algorithm respectful of human psychovisual image perception. In the first part we present the basic assumptions...

... before applying wavelet packet transform and in the third part we show that a quasi **lossless compression** /decompression scheme can be easily obtained with compression ratio up to 1:10 (quantization step...

# 6/3,K/12 (Item 12 from file: 2)

DIALOG(R) File 2: INSPEC

(c) 2005 Institution of Electrical Engineers. All rts. reserv.

4962326 INSPEC Abstract Number: A9512-8760K-010, B9507-7510B-037, C9507-7330-082

# Title: Lossy compression in nuclear medicine images

Author(s): Rebelo, M.S.; Furuie, S.S.; Munhoz, A.C.L.; Moura, L.; Melo, C.P.

Author Affiliation: InCor-HCFMUSP, Sao Paulo, Brazil

p.824-8

Editor(s): Safran, C.

Publisher: McGraw-Hill, New York, NY, USA

Publication Date: 1994 Country of Publication: USA xxviii+984 pp.

ISBN: 0 07 001502 3

Conference Title: Proceedings of Seventeenth Annual Symposium on Computer Applications in Medical Care

Conference Date: 30 Oct.-3 Nov. 1993 Conference Location: Washington, DC, USA

Language: English Subfile: A B C Copyright 1995, IEE

... Abstract: represent images. In medical applications, it is not desirable to lose any information and thus **lossless** compression methods are often used. However, medical imaging systems have intrinsic noise associated with them. The...

... in the images. We have compressed images of nuclear medicine using the discrete cosine transform algorithm. The decompressed images were considered reliable for visual inspection. Furthermore, a parameter was computed from these images...

6/3,K/13 (Item 13 from file: 2)

DIALOG(R) File 2: INSPEC

(c) 2005 Institution of Electrical Engineers. All rts. reserv.

4536574 INSPEC Abstract Number: B9401-1265F-015, C9401-5135-005

Title: On the design and implementation of a lossless data compression and decompression chip

Author(s): Royals, D.M.; Markas, T.; Kahopoulos, N.; Reif, J.H.; Storer, J.A.

Author Affiliation: Center for Syst. Eng., Research Triangle Inst., Research Triangle Park, NC, USA

Journal: IEEE Journal of Solid-State Circuits vol.28, no.9 p.948-53

Publication Date: Sept. 1993 Country of Publication: USA

CODEN: IJSCBC ISSN: 0018-9200

U.S. Copyright Clearance Center Code: 0018-9200/93/\$03.00

Language: English

Subfile: B C

Title: On the design and implementation of a lossless data compression and decompression chip

Abstract: A **lossless** data **compression** and **decompression** (LDCD) **algorithm** based on the notion of textural substitution has been implemented in silicon using a linear...

Identifiers: compression/ decompression algorithm;

# 6/3,K/14 (Item 14 from file: 2)

DIALOG(R) File 2:INSPEC

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4481855 INSPEC Abstract Number: B9310-1265F-036, C9310-5135-019

Title: High-speed VLSI designs for Lempel-Ziv-based data compression Author(s): Ranganathan, N.; Henriques, S.

Author Affiliation: Dept. of Comput. Sci. & Eng., Univ. of South Florida, Tampa, FL, USA

Journal: IEEE Transactions on Circuits and Systems II: Analog and Digital Signal Processing vol.40, no.2 p.96-106

Publication Date: Feb. 1993 Country of Publication: USA

CODEN: ICSPE5 ISSN: 1057-7130

U.S. Copyright Clearance Center Code: 1057-7130/93/\$03.00

Language: English

Subfile: B C

... Abstract: compression technique is described. The Lempel-Ziv-based compression method is a powerful technique for **lossless** data **compression** that gives high compression efficiency for text as well as image data. The proposed hardware...

...gives a compression rate of 13.3 MB/s operating at 40 MHz. Two hardware algorithms for the decompression process are also described. The data compression hardware can be integrated into real-time systems...

... Identifiers: lossless data compression;

# 6/3,K/15 (Item 1 from file: 6)

DIALOG(R) File 6:NTIS

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1952505 NTIS Accession Number: AD-A304 792/5

Lossless Data Compression of Packet Data Streams

Choi, J.; Grunes, M. R.

Naval Research Lab., Washington, DC. Systems Engineering Staff.

Corp. Source Codes: 000927007; 430780

Report No.: NRL/MR/8140.2-96-7818

14 Feb 96 52p Languages: English

Journal Announcement: GRAI9616

Prepared in collaboration with Allied Technical Services, Camp Springs, MD.

Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

NTIS Prices: PC A05/MF A01

# Lossless Data Compression of Packet Data Streams

... packet type, and are broken up into separate compression streams on bit field boundaries. 18 lossless compression algorithms are examined for effectiveness. These algorithms are able to compress most of the data

Descriptors: \*Data compression; Algorithms ; Packets; Losses; Decompression

Identifiers: \*Packet communications; Lossless compression; Radix coding; Rice coding; NTISDODXA

# 6/3,K/16 (Item 2 from file: 6)

DIALOG(R) File 6:NTIS

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1601495 NTIS Accession Number: N91-27775/6

Very High Speed Lossless Compression / Decompression Chip Set

Venbrux, J.; Liu, N.; Liu, K.; Vincent, P.; Merrell, R.

Idaho Univ., Moscow. NASA VLSI Hardware Acceleration Center for Space Research.

Corp. Source Codes: 009858059; NB113063

Sponsor: National Aeronautics and Space Administration, Washington, DC.

Report No.: NAS 1.26:188655; JPL-PUBL-91-13; NASA-CR-188655

15 Jul 91 17p

Languages: English

Journal Announcement: GRAI9122; STAR2919

Sponsored In part by NASA. Goddard Space Flight Center.

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NTIS Prices: PC A03/MF A01

# Very High Speed Lossless Compression / Decompression Chip Set

A chip is described that will perform **lossless compression** and **decompression** using the Rice **Algorithm**. The chip set is designed to compress and decompress source data in real time for...

# 6/3,K/17 (Item 1 from file: 8) DIALOG(R)File 8:Ei Compendex(R)

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04711910 E.I. No: EIP97063674729

Title: Fast block-sorting algorithm for lossless data compression

Author: Schindler, Michael

Corporate Source: Vienna Univ of Technology, Vienna, Aust

Conference Title: Proceedings of the 1997 Data Compression Conference, DCC'97

Conference Location: Snowbird, UT, USA Conference Date: 19970325-19970327

E.I. Conference No.: 46437

Source: Data Compression Conference Proceedings 1997. IEEE, Piscataway, NJ, USA. p 469

Publication Year: 1997

CODEN: DDCCF9 ISSN: 1068-0314

Language: English

Title: Fast block-sorting algorithm for lossless data compression Identifiers: Block sorting algorithm; Lossless data compression; Decompression

6/3,K/18 (Item 1 from file: 34)

DIALOG(R) File 34: SciSearch(R) Cited Ref Sci (c) 2005 Inst for Sci Info. All rts. reserv.

09236261 Genuine Article#: 382FB No. References: 20

Title: A hardware architecture for the LZW compression and decompression algorithms based on parallel dictionaries

Author(s): Lin MB (REPRINT)

Corporate Source: NATL TAIWAN UNIV SCI & TECHNOL, DEPT ELECT ENGN, 43 KEELUNG RD, SECT 4/TAIPEI//TAIWAN/ (REPRINT)

Journal: JOURNAL OF VLSI SIGNAL PROCESSING SYSTEMS FOR SIGNAL IMAGE AND VIDEO TECHNOLOGY, 2000, V26, N3 (NOV), P369-381

ISSN: 0922-5773 Publication date: 20001100

Publisher: KLUWER ACADEMIC PUBL, SPUIBOULEVARD 50, PO BOX 17, 3300 AA DORDRECHT, NETHERLANDS

Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

Title: A hardware architecture for the LZW compression and decompression algorithms based on parallel dictionaries

... Abstract: dictionaries of small address space and increasing word widths is used for both compression and **decompression** algorithms. The results show that the new architecture not only can be easily implemented in VLSI...

6/3,K/19 (Item 2 from file: 34)

DIALOG(R) File 34: SciSearch(R) Cited Ref Sci (c) 2005 Inst for Sci Info. All rts. reserv.

02432369 Genuine Article#: LA800 No. References: 9

Title: EFFICIENT STORAGE, COMPUTATION, AND EXPOSURE OF COMPUTER-GENERATED HOLOGRAMS BY ELECTRON-BEAM LITHOGRAPHY

Author(s): NEWMAN DM; HAWLEY RW; GOECKEL DL; CRAWFORD RD; ABRAHAM S; GALLAGHER NC

Corporate Source: PURDUE UNIV, SCH ELECT ENGN/W LAFAYETTE//IN/47907 Journal: APPLIED OPTICS, 1993, V32, N14 (MAY 10), P2555-2565

ISSN: 0003-6935

Language: ENGLISH Document Type: ARTICLE (Abstract Available)

... Abstract: was implemented on a parallel computer, which improved performance by 2 orders of magnitude. The **decompression algorithm** was integrated into the Cambridge electron-beam machine's front-end processor.

Although this provides...

Research Fronts: 91-5711 001 (HUFFMAN CODES; LOSSLESS IMAGE COMPRESSION; ADAPTIVE SOURCE-CODING; CHESS GAMES; VLSI ALGORITHMS; PERFORMANCE IMPROVEMENT)

6/3,K/20 (Item 1 from file: 35)

DIALOG(R) File 35: Dissertation Abs Online

(c) 2005 ProQuest Info&Learning. All rts. reserv.

01812709 ORDER NO: AADAA-I3002469

Mesh compression and its hardware/software applications

Author: Mitra, Tulika

Degree: Ph.D. Year: 2000

Corporate Source/Institution: State University of New York at Stony

Brook (0771)

Source: VOLUME 62/01-B OF DISSERTATION ABSTRACTS INTERNATIONAL.

PAGE 341. 163 PAGES

ISBN: 0-493-10891-2

...solution to this problem is to use a compressed mesh representation. This dissertations presents a **lossless compression** -domain mesh processing paradigm for efficient encoding and manipulation of large triangle and tetrahedral meshes...

...disk access time for the resultant mesh. At the same time, the simplicity of the algorithm makes BFT decompression amenable to hardware implementation. The feasibility of BFT decompression in hardware is demonstrated with a...

6/3,K/21 (Item 2 from file: 35)

DIALOG(R) File 35: Dissertation Abs Online

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01642392 ORDER NO: NOT AVAILABLE FROM UNIVERSITY MICROFILMS INT'L.

LOSSLESS DATA COMPRESSION IN VLSI

Author: BENSCHOP, LEONARD CORNELIUS

Degree: DR. Year: 1997

Corporate Source/Institution: TECHNISCHE UNIVERSITEIT EINDHOVEN (THE

NETHERLANDS) (0426)

Source: VOLUME 59/03-C OF DISSERTATION ABSTRACTS INTERNATIONAL.

PAGE 749. 242 PAGES

ISBN: 90-386-0400-9

Location of Reference Copy: LIBRARY OF ELECTRICAL ENGINEERING, EINDHOVEN

UNIVERSITY OF TECHNOLOGY, DEN DOLECH 2, EINDHOVEN,

NETHERLANDS

LOSSLESS DATA COMPRESSION IN VLSI

This thesis describes the design of a VLSI circuit for lossless data compression and decompression using the LZH algorithm (Lempel-Ziv and Huffman). The compressed data is compatible with standard software. The required speed...

6/3,K/22 (Item 1 from file: 94)

DIALOG(R) File 94: JICST-EPlus

(c) 2005 Japan Science and Tech Corp(JST). All rts. reserv.

05824501 JICST ACCESSION NUMBER: 04A0468276 FILE SEGMENT: JICST-E Sequential Algorithm for Compressing Ordered Tree without Loss KATO KOICHIRO (1); UCHIDA TOMOYUKI (1); NAKAMURA YASUAKI (1)

(1) Hiroshima City Univ., Hiroshima, Jpn Joho Shori Gakkai Kenkyu Hokoku, 2004, VOL.2004, NO.52(AL-95), PAGE.9-16,

FIG.9, REF.7

JOURNAL NUMBER: Z0031BAO ISSN NO: 0919-6072

UNIVERSAL DECIMAL CLASSIFICATION: 681.5.011 681.3.06
LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Journal

ARTICLE TYPE: Original paper MEDIA TYPE: Printed Publication

- ...ABSTRACT: up such a heavy process. The purpose of this paper is to present an efficient **lossless** compression algorithm for sequential tree structured data. Tree structured data are represented by rooted trees each...
- ...children. Such a tree is called an ordered tree. Firstly, we give a concept of lossless compression for an ordered tree. Secondly, based on a LZSS method which is one of lossless compression methods over strings, we present sequential algorithm for sequentially compressing a large ordered tree without loss. Moreover, we also present an efficient decompression algorithm for compressed ordered tree. Finally, in order to evaluate the performance of our algorithms, we...

6/3,K/23 (Item 2 from file: 94)

DIALOG(R) File 94: JICST-EPlus

(c) 2005 Japan Science and Tech Corp(JST). All rts. reserv.

02290672 JICST ACCESSION NUMBER: 94A0974401 FILE SEGMENT: JICST-E File compression technology.(1).

OKUMURA HARUHIKO (1)

(1) Matsuzakadai Seijikeizai

BIT(Tokyo), 1994, VOL.26, NO.12, PAGE.4-13, FIG.1, TBL.1, REF.23

JOURNAL NUMBER: G0873AAS ISSN NO: 0385-6984 UNIVERSAL DECIMAL CLASSIFICATION: 621.391.037.3

LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Journal ARTICLE TYPE: Commentary

MEDIA TYPE: Printed Publication

...ABSTRACT: compression, LZSS method, variable length code, Huffman method, arithmetic compression, etc.) with limiting to the lossless (reversible) compression in which data are perfectly restored to

original by decompression. This paper describes algorithms of gzip, LHA combines LZSS method with Huffman etc.

6/3,K/24 (Item 1 from file: 99)
DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs
(c) 2005 The HW Wilson Co. All rts. reserv.

1109921 H.W. WILSON RECORD NUMBER: BAST93042048

Putting data on a diet

Weiss, Jeffrey; Schremp, Doug

IEEE Spectrum v. 30 (Aug. '93) p. 36-9

DOCUMENT TYPE: Feature Article ISSN: 0018-9235

...ABSTRACT: remove them and thereby reduce the data set. Then, after transmission or storage, a complementary decompression algorithm restores the compressed data to its original form. In an explanation of how these algorithms work, the following are discussed: lossy and lossless compression; entropy, which is a measure of the information's content; run-length encoding; Huffman trees...

6/3,K/25 (Item 1 from file: 144) DIALOG(R)File 144:Pascal (c) 2005 INIST/CNRS. All rts. reserv.

14973117 PASCAL No.: 01-0126331

Compressed and fully compressed pattern matching in one and two dimensions

Lossless **Data** Compression RYTTER Wojciech STORER James A, ed

Instytut Informatyki, Uniwersytet Warszawski, 02-097 Warszawa, Poland; Department of Computer Science, Liverpool University, Liverpool L69 7ZF, United Kingdom

Computer Science Department, Brandeis University, Waltham, MA 02454, United States

Institute of Electrical and Electronics Engineers, New York, NY, United States

IEEE Data Compression Conference (Los Alamitos, CA USA) Journal: Proceedings of the IEEE, 2000, 88 (11) 1769-1778 Language: English

Copyright (c) 2001 INIST-CNRS. All rights reserved.

Lossless Data Compression French Descriptors: Traitement texte; Compression donnee; Concordance forme

French Descriptors: Traitement texte; Compression donnee; Concordance forme; Modele 1 dimension; Modele 2 dimensions; Complexite; Decompression; Theorie information; Algorithme; Etude theorique; 0705R; 0705K

6/3,K/26 (Item 2 from file: 144) DIALOG(R)File 144:Pascal (c) 2005 INIST/CNRS. All rts. reserv.

14849913 PASCAL No.: 00-0534613

Adaptive context-based sequential prediction for lossless audio compression: Special section on DSP in audio-visual communications

GIURCANEANU Ciprian Doru; TABUS Ioan; ASTOLA Jaakko Signal Processing Laboratory, Tampere University of Technology, P.O. Box 553, Tampere 33101, Finland

Journal: Signal processing, 2000, 80 (11) 2283-2294 Language: English Summary Language: German; French

Copyright (c) 2000 INIST-CNRS. All rights reserved.

Adaptive context-based sequential prediction for lossless audio compression: Special section on DSP in audio-visual communications

... le contexte en mode sequentiel pour la compression audio sans perte. Nous montrons que les **algorithmes de compression** sans perte avec prediction sequentielle basee sur le contexte peuvent fournir de meilleurs resultats de...

```
? show files; ds; save temp; logoff hold
       9:Business & Industry(R) Jul/1994-2005/Jun 15
File
         (c) 2005 The Gale Group
      15:ABI/Inform(R) 1971-2005/Jun 15
File
         (c) 2005 ProQuest Info&Learning
      16:Gale Group PROMT(R) 1990-2005/Jun 15
File
         (c) 2005 The Gale Group
      20:Dialog Global Reporter 1997-2005/Jun 15
         (c) 2005 The Dialog Corp.
      47: Gale Group Magazine DB(TM) 1959-2005/Jun 15
File
         (c) 2005 The Gale group
      75:TGG Management Contents(R) 86-2005/Jun W1
File
         (c) 2005 The Gale Group
      80:TGG Aerospace/Def.Mkts(R) 1982-2005/Jun 15
File
         (c) 2005 The Gale Group
      88:Gale Group Business A.R.T.S. 1976-2005/Jun 15
File
         (c) 2005 The Gale Group
File
      98:General Sci Abs/Full-Text 1984-2004/Dec
         (c) 2005 The HW Wilson Co.
File 112:UBM Industry News 1998-2004/Jan 27
         (c) 2004 United Business Media
File 141:Readers Guide 1983-2005/Dec
         (c) 2005 The HW Wilson Co
File 148:Gale Group Trade & Industry DB 1976-2005/Jun 15
         (c) 2005 The Gale Group
File 160:Gale Group PROMT(R) 1972-1989
         (c) 1999 The Gale Group
File 275:Gale Group Computer DB(TM) 1983-2005/Jun 15
         (c) 2005 The Gale Group
File 264:DIALOG Defense Newsletters 1989-2005/Jun 15
         (c) 2005 The Dialog Corp.
File 484: Periodical Abs Plustext 1986-2005/Jun W2
         (c) 2005 ProQuest
File 553: Wilson Bus. Abs. FullText 1982-2004/Dec
         (c) 2005 The HW Wilson Co
File 570: Gale Group MARS(R) 1984-2005/Jun 15
         (c) 2005 The Gale Group
File 608:KR/T Bus.News. 1992-2005/Jun 15
         (c)2005 Knight Ridder/Tribune Bus News
File 620:EIU:Viewswire 2005/Jun 14
         (c) 2005 Economist Intelligence Unit
File 613:PR Newswire 1999-2005/Jun 15
         (c) 2005 PR Newswire Association Inc
File 621:Gale Group New Prod. Annou. (R) 1985-2005/Jun 15
         (c) 2005 The Gale Group
File 623: Business Week 1985-2005/Jun 09
         (c) 2005 The McGraw-Hill Companies Inc
File 624:McGraw-Hill Publications 1985-2005/Jun 15
         (c) 2005 McGraw-Hill Co. Inc
File 634:San Jose Mercury Jun 1985-2005/Jun 14
         (c) 2005 San Jose Mercury News
File 635:Business Dateline(R) 1985-2005/Jun 15
         (c) 2005 ProQuest Info&Learning
File 636: Gale Group Newsletter DB(TM) 1987-2005/Jun 15
         (c) 2005 The Gale Group
File 647:CMP Computer Fulltext 1988-2005/May W5
         (c) 2005 CMP Media, LLC
File 696:DIALOG Telecom. Newsletters 1995-2005/Jun 14
         (c) 2005 The Dialog Corp.
File 674: Computer News Fulltext 1989-2005/Jun W2
```

(c) 2005 IDG Communications File 810:Business Wire 1986-1999/Feb 28 (c) 1999 Business Wire File 813:PR Newswire 1987-1999/Apr 30 (c) 1999 PR Newswire Association Inc	
File 587:Jane`s Defense&Aerospace 2005/Jun W2	
(c) 2005 Jane`s Information Group	
Set Items Description	
S1 1671 FX(3N)(DECOMPRESS? OR DE()COMPRESS? OR ALGORITHM ?) OR (DE	3-
COMPRESS? OR DE()COMPRESS?)(3N) ALGORITHM?	
s2 3360 LOSSLESS(3N)(PIXEL OR PIXEL(3N)PIXEL) OR LOSSLESS(3N)(COMP	2-
RESS? OR DE()COMPRESS?) OR LOSSLESS(3N)PIXEL(3N)DECOMPRESS?	
937 AU=(CLOUTHIER, S? OR CLOUTHIER S? OR BENEAR, R? OR BENEA	٨R
R? OR FISCHER, T? OR FISCHER T?)	
54 0 S1 AND S3	
35 15 S1(S)S2	`
9 RD (unique items)	
34 FX(3N)(DECOMPRESS? OR DE()COMPRESS? OR ALGORITHM?)	
RD (unique items)	
59 17 S8 NOT \$6	

6/3,K/1 (Item 1 from file: 15)

DIALOG(R) File 15:ABI/Inform(R)

(c) 2005 ProQuest Info&Learning. All rts. reserv.

02525019 140705841

Unified personal mobile communication services for a wireless campus

Hui, Siu C; Fong, A C M; Lau, C T

Campus - Wide Information Systems v19n1 PP: 27-35 2002

ISSN: 1065-0741 JRNL CODE: CWFS

WORD COUNT: 4129

 $\dots$ TEXT: the search result to give the user an idea of what the Web page contains.

Lossless compression: this enables the original message (body and attachment) to be recovered following decompression. The ZIP compression algorithm (Gailly, 1999) is used as it is one of the most commonly used lossless compression algorithms and it is the only native compression algorithm supported in the Java programming language...

6/3,K/2 (Item 1 from file: 16)

DIALOG(R) File 16: Gale Group PROMT(R)

(c) 2005 The Gale Group. All rts. reserv.

08021686 Supplier Number: 66683216 (USE FORMAT 7 FOR FULLTEXT)

Small Packages. (Technology Information)

Rubenking, Neil J.

PC Magazine, p106

Dec 5, 2000

Language: English Record Type: Fulltext Abstract

Document Type: Magazine/Journal; General Trade

Word Count: 1901

... technique for reducing the number of bytes required to store or transmit data. If the **algorithm** is **lossless**, **decompressing** a **compressed** file will yield a result that is identical to the original. This type of compression...

6/3,K/3 (Item 2 from file: 16)

DIALOG(R) File 16: Gale Group PROMT(R)

(c) 2005 The Gale Group. All rts. reserv.

02918174 Supplier Number: 43941798 (USE FORMAT 7 FOR FULLTEXT)

Digital Video Compression: Getting Images Across a Net

Network Computing, p146

July, 1993

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 4201

... too high for PC applications.

Compression algorithms fall into two categories: lossless and lossy. In lossless compression all the information of the uncompressed message can be recovered faithfully by decompression. Lossless compression algorithms are symmetrical. That is, the sender and receiver require the same level of computational complexity...

...for example, numbers or text - clearly require lossless methods.

Hardware and software products that implement lossless algorithms have compression ratios of about 2:1. Typical applications for lossless compression include doubling the storage capacity of a disk or doubling the speed of a communication line. Lossless compression also can be applied to voice or image files. There, because data redundancy is high...

6/3,K/4 (Item 1 from file: 47)
DIALOG(R)File 47:Gale Group Magazine DB(TM)
(c) 2005 The Gale group. All rts. reserv.

04516779 SUPPLIER NUMBER: 18371621 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Creating graphic images for the Web. (PC Tech/Internet Tools) (includes a related article on new graphics formats for Netscape Navigator 2.0)
(Technology Tutorial) (Tutorial)

Simone, Luisa

PC Magazine, v15, n12, p221(4)

June 25, 1996

DOCUMENT TYPE: Tutorial ISSN: 0888-8507 LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 3008 LINE COUNT: 00235

... thus avoids obvious banding in graduated fills.
Use Compression Methods

Graphics file formats incorporate compression/ decompression algorithms as part of the file open/save or import/export operation. The .GIF and JPEG formats both use sophisticated compression algorithms, but they differ in that .GIF incorporates a lossless compression method and JPEG a lossy method.

.GIF files are built around the lossless Lempel-Ziv...

6/3,K/5 (Item 1 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2005 The Gale Group. All rts. reserv.

07968247 SUPPLIER NUMBER: 17190128 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Peerless ASIC Sets New Price/Performance Standard for Networked Printers
and Multi-function Devices; QuickPrint Enables Printers to Output 24
Pages-Per-Minute At 1200 x 1200 dpi At 40 Percent The Cost of Competing
Products.

Business Wire, p7030007

July 3, 1995

LANGUAGE: English RECORD TYPE: Fulltext WORD COUNT: 729 LINE COUNT: 00074

... includes Peerless' Graphics Execution Unit '(GEU) which incorporates patent-pending lossy and lossless compression and **decompression**algorithms to deliver ratios ranging from 4:1 up to and beyond 25:1.

High Performance...

6/3,K/6 (Item 1 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2005 The Gale Group. All rts. reserv.

01973678 SUPPLIER NUMBER: 18481432

Multimedia: the I-way drive-in. (use of Internet for live audio and video)

(includes related article on Internet multicast backbone)

(Internet/Web/Online Service Information)

Steinke, Steve

LAN Magazine, v11, n8, p45(4)

August, 1996

ISSN: 1069-5621 LANGUAGE: English RECORD TYPE: Fulltext; Abstract

WORD COUNT: 3726 LINE COUNT: 00302

First, multimedia streams can be compressed using lossy algorithms.

Lossless data compression algorithms such as PKZIP are perfectly reversible; every bit present in the original data will be the same in a copy that has been compressed and decompressed. Lossy compression algorithms lose data as a file or stream is compressed and decompressed. This price is ordinarily paid to achieve greater efficiency and improved speed compared to lossless compression. With well-designed compression methods, the lost data is expendable, or even unnoticeable.

Second, multimedia...

#### 6/3,K/7 (Item 2 from file: 275)

DIALOG(R) File 275: Gale Group Computer DB(TM)

(c) 2005 The Gale Group. All rts. reserv.

01880963 SUPPLIER NUMBER: 17883134 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Image isn't everything. (image management on the LAN) (Technology
Information)

Held, Gilbert

LAN Magazine, v11, n1, p85(5)

Jan, 1996

ISSN: 1069-5621 LANGUAGE: English RECORD TYPE: Fulltext; Abstract

WORD COUNT: 2906 LINE COUNT: 00242

... format.

LZW is one of several string-based compression methods that is fully reversible. The **decompression algorithm**, when applied to a previously compressed file, results in the recreation of the original file...

...a bit-for-bit basis without any loss of data. This technique is also called **lossless** compression .

The Joint Photographic Experts Group (JPEG) standardized a method of image storage and viewing based...

#### 6/3,K/8 (Item 3 from file: 275)

DIALOG(R) File 275: Gale Group Computer DB(TM)

(c) 2005 The Gale Group. All rts. reserv.

01835878 SUPPLIER NUMBER: 17414017 (USE FORMAT 7 OR 9 FOR FULL TEXT)
The primer. (migrating to a new network operating system) (includes related article on battle between NetWare and NT for upgrade market share) (The Great Debate: NetWare 4.1 vs. NT 3.5) (Tutorial)

Chernicoff, David; Jensen, Bert; Salvator, Dave

Windows Sources, v3, n10, p78(5)

Oct, 1995

DOCUMENT TYPE: Tutorial ISSN: 1065-9641 LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 4435 LINE COUNT: 00353

... your MIDI file.

As with video, you can use any of several types of compression/ decompression algorithms (codecs) to compress your digital recordings. Uncompressed digital recordings use a process called pulse code...

...the difference from sample to sample, which uses only 4 bits of data, delivering nearly lossless 4-to-1 compression. Even slight losses can be noticeable with music, but with speech the effect is minimal...

6/3,K/9 (Item 1 from file: 647)
DIALOG(R)File 647:CMP Computer Fulltext
(c) 2005 CMP Media, LLC. All rts. reserv.

00546284 CMP ACCESSION NUMBER: NWC19930705S4642
Digital Video Compression: Getting Images Across a Net

Daniel Minoli

NETWORK COMPUTING, 1993, n 407, 146

PUBLICATION DATE: 930705

JOURNAL CODE: NWC LANGUAGE: English

RECORD TYPE: Fulltext

SECTION HEADING: The Workshop

WORD COUNT: 4138

... too high for PC applications.

Compression algorithms fall into two categories: lossless and lossy. In lossless compression all the information of the uncompressed message can be recovered faithfully by decompression. Lossless compression algorithms are symmetrical. That is, the sender and receiver require the same level of computational complexity...

...for example, numbers or text-clearly require lossless methods. Hardware and software products that implement lossless algorithms have compression ratios of about 2:1. Typical applications for lossless compression include doubling the storage capacity of a disk or doubling the speed of a communication line. Lossless compression also can be applied to voice or image files. There, because data redundancy is high...?

9/3,K/1 (Item 1 from file: 9)
DIALOG(R)File 9:Business & Industry(R)

(c) 2005 The Gale Group. All rts. reserv.

03630860 Supplier Number: 131238048 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Trading: Algorithms Headed for New Frontiers: Advanced matrices for equity
transactions are being applied to other financial instruments, such as
options, futures and foreign exchange. And you thought the game was
competitive before.

Bank Technology News, v 18, n 4, p 22

April 2005

DOCUMENT TYPE: Journal ISSN: 1060-3506 (United States)

LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 774

(USE FORMAT 7 OR 9 FOR FULLTEXT)

#### TEXT:

...as you can from algorithms in the equity market."

Goldman Sachs in February added futures **algorithms** along with **FX** and options spread trading to version 5.0 of its REDIPlus direct access trading platform...

#### 9/3,K/2 (Item 2 from file: 9)

DIALOG(R) File 9: Business & Industry(R) (c) 2005 The Gale Group. All rts. reserv.

03444562 Supplier Number: 122262899 (USE FORMAT 7 OR 9 FOR FULLTEXT)

The search for simplicity.

(Financial technology)

Euromoney, v 35, n 424, p 36

August 2004

DOCUMENT TYPE: Journal ISSN: 0014-2433 (United Kingdom)

LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 8758

(USE FORMAT 7 OR 9 FOR FULLTEXT)

## TEXT:

...Capital Systems 38.2
Orc Software 29.0
ANALYTIC CAPABILITIES

Grade

SuperDerivatives: SuperDerivatives 91.5

FX , Derivatives

AlgorithmicaResearch: Quantlab83.0Sophis: Sophis Risque81.3Sophis: Sophis Value79.4

Savvysoft...

9/3,K/3 (Item 1 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2005 The Gale Group. All rts. reserv.

11982486 Supplier Number: 131238048 (USE FORMAT 7 FOR FULLTEXT)

Trading: Algorithms Headed for New Frontiers: Advanced matrices for equity transactions are being applied to other financial instruments, such as options, futures and foreign exchange. And you thought the game was competitive before.

Kite, Shane

Bank Technology News, v18, n4, p22

April, 2005

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 854

... as you can from algorithms in the equity market."

Goldman Sachs in February added futures **algorithms** along with **FX** and options spread trading to version 5.0 of its REDIPlus direct access trading platform...

#### 9/3,K/4 (Item 2 from file: 16)

DIALOG(R) File 16: Gale Group PROMT(R)

(c) 2005 The Gale Group. All rts. reserv.

11898305 Supplier Number: 130205146 (USE FORMAT 7 FOR FULLTEXT)

InfoReach, Inc. Introduces Pay-Per-Use Trade Management System.

PR Newswire, pNA

March 14, 2005

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 440

 $\dots$  provides the ability to trade baskets and single orders of global equities, futures, options and **FX** either manually or **algorithmically**. Equipped with out-of-the-box strategies, TMS also serves as a platform for the...

#### 9/3,K/5 (Item 3 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)

(c) 2005 The Gale Group. All rts. reserv.

11255116 Supplier Number: 117765481 (USE FORMAT 7 FOR FULLTEXT)

Xilinx Unveils Virtex-4 Family - Industry's First Multi-Platform FPGA; First Embodiment of ASMBL Architecture Promises Up to Twice the Density and Twice the Performance of Any FPGA Currently in Production.

PR Newswire, pNA

June 7, 2004

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 966

... of performance make the SX devices the ideal complement to programmable DSP processors as DSP algorithm accelerators.

-- Virtex-4 FX

Platform FPGAs are assembled with capabilities tuned for complex system applications including high-speed serial...

9/3,K/6 (Item 4 from file: 16)

DIALOG(R) File 16: Gale Group PROMT(R)

(c) 2005 The Gale Group. All rts. reserv.

08959646 Supplier Number: 77827781 (USE FORMAT 7 FOR FULLTEXT)

SYNTHESIZER & SAMPLER MODULES.

Electronic Musician, v17, n7, p178

July, 2001

Language: English Record Type: Fulltext

Document Type: Newsletter; Trade

Word Count: 879

.. 0/448

Korg N/A LP/resonat 0/100

algorithm

Korg 18 MB Reso filter **FX** 

algorithm /Y

1,471/200

Korg DWGS in ROM LP; BP; HP 0/128

Korg 32 MB in ROM...

9/3,K/7 (Item 5 from file: 16)

DIALOG(R) File 16: Gale Group PROMT(R)

(c) 2005 The Gale Group. All rts. reserv.

07606362 Supplier Number: 59624392 (USE FORMAT 7 FOR FULLTEXT)

SOFTWARE NEWS. (International Pages) (Product Announcement)

WAUGH, IAN

Pro Sound News Europe, v14, n9, p70

Sept, 1999

Language: English Record Type: Fulltext

Article Type: Product Announcement Document Type: Magazine/Journal; Trade

Word Count: 2843

... switched between at any time during a performance. There are eight new non-real-time  ${\tt FX}$  algorithms, the ability to export finished remixes

as MP3, Windows Media Audio, Stereo WAV, RealPlayer G2...

9/3,K/8 (Item 6 from file: 16)

DIALOG(R) File 16: Gale Group PROMT(R)

(c) 2005 The Gale Group. All rts. reserv.

01730265 Supplier Number: 42162577

Eicon gets fax data to desktop

Computing Canada, p35

June 20, 1991

Language: English Record Type: Abstract

Document Type: Magazine/Journal; Trade

ABSTRACT:

...and DOS, and supports Ventura Publisher, PageMaker, and Microsoft Word. The package also enables fax **decompression** on reception. EiconScript ( FX

) is available in 2 models: the model 100 and the model 300.

9/3,K/9 (Item 7 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)

(c) 2005 The Gale Group. All rts. reserv.

Supplier Number: 42087298 (USE FORMAT 7 FOR FULLTEXT)

ATI Announces Two New Multimedia Boards

News Release, pl May 20, 1991

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

771 . Word Count:

and easy-

to-use software tools for voice recordings and playback. In addition, the AUDIO FX provides compression and decompression features to minimize the required disk storage space.

Microsoft Multimedia Windows Compatible

The AUDIO FX...

(Item 1 from file: 20) 9/3,K/10

DIALOG(R) File 20: Dialog Global Reporter

(c) 2005 The Dialog Corp. All rts. reserv.

35972961 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Xilinx Unveils Virtex-4 Family - Industry's First Multi-Platform FPGA PR NEWSWIRE (US)

June 07, 2004

JOURNAL CODE: WPRU LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 1101

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... of performance make the SX devices the ideal complement to programmable DSP processors as DSP  ${f algorithm}$  accelerators. -- Virtex-4 Platform FPGAs are assembled with capabilities tuned for complex system applications including high-speed serial...

(Item 1 from file: 47) 9/3,K/11

DIALOG(R) File 47: Gale Group Magazine DB(TM)

(c) 2005 The Gale group. All rts. reserv.

(USE FORMAT 7 OR 9 FOR FULL TEXT) SUPPLIER NUMBER: 18159896 1996 NAMM breaks records. (National Association of Music Merchants exhibit in Anaheim, California)

McHugh, Catherine

TCI, v30, n4, p17(2)

April, 1996

ISSN: 1063-9497 LANGUAGE: English RECORD TYPE: Fulltext; Abstract

WORD COUNT: 996 LINE COUNT: 00085

Digital Reverberator as a companion to the PCM 80 Digital Effects Processor, and the Pitch FX Algorithm and Preset cards that expand the processor's functions by plugging into the unit's...

9/3,K/12 (Item 1 from file: 148)

DIALOG(R) File 148: Gale Group Trade & Industry DB

(c) 2005 The Gale Group. All rts. reserv.

SUPPLIER NUMBER: 95876324 (USE FORMAT 7 OR 9 FOR FULL TEXT) New software cuts time and cost of colour matching. (Colour).

British Plastics & Rubber, 46(1)

Nov, 2002

ISSN: 0307-6164 LANGUAGE: English WORD COUNT: 154

LINE COUNT: 00016

RECORD TYPE: Fulltext

SpectraMatch FX embodies new algorithms based on multi-flux mathematics and goes beyond conventional Kubelka-Munk theory. It needs only

9/3,K/13 (Item 2 from file: 148)

DIALOG(R) File 148: Gale Group Trade & Industry DB (c)2005 The Gale Group. All rts. reserv.

SUPPLIER NUMBER: 61949535 (USE FORMAT 7 OR 9 FOR FULL TEXT) 12154962

Expansion into the energy industry.

Energy Report, 27, 3, 5

March, 2000

ISSN: 0093-7657 LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 124 LINE COUNT: 00014

...options, exotic currency/commodity options, and interest rate options. The company is known for its FX option algorithms for energy, power and weather. Kalahari will now be offering these analytics as an additional...

(Item 3 from file: 148) 9/3,K/14

DIALOG(R) File 148: Gale Group Trade & Industry DB (c)2005 The Gale Group. All rts. reserv.

03295351 SUPPLIER NUMBER: 05237757 (USE FORMAT 7 OR 9 FOR FULL TEXT) Alliant Computer Systems breaks price-performance barrier for parallel supercomputing.

PR Newswire, NE2 Oct 19, 1987

RECORD TYPE: FULLTEXT LANGUAGE: ENGLISH

WORD COUNT: 1176 LINE COUNT: 00101

departmental users or clusters of networked workstations. The company also announced high-performance compiler and algorithm products for the FX /Series systems.

"We achieved the FX/4's low price through a combination of new...

...manufacturing efficiencies," said Craig Mundie, vice president of marketing. "In addition, major advances in the algorithms optimized for the FX /Series parallel architecture transparently provide very significant application-level performance increases."

Alliant's new software...

(Item 1 from file: 275) DIALOG(R) File 275: Gale Group Computer DB(TM) (c) 2005 The Gale Group. All rts. reserv.

02470778 SUPPLIER NUMBER: 69711182 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Take Along Tunes - The Play-by-Play on Buying a Portable Digital-Music
Player. (Buyers Guide)

Labriola, Don

Computer Shopper, 130

March 1, 2001

DOCUMENT TYPE: Buyers Guide ISSN: 0886-0556 LANGUAGE: English

RECORD TYPE: Fulltext

WORD COUNT: 2337 LINE COUNT: 00188

... mediocre home stereo. Spatializer Audio Laboratories aims to change all that with its Digital OntheGo  ${\bf FX}$  algorithm , which the company expects to be incorporated into a significant portion of all the handheld

9/3,K/16 (Item 1 from file: 621)

DIALOG(R) File 621: Gale Group New Prod. Annou. (R)

(c) 2005 The Gale Group. All rts. reserv.

01009131 Supplier Number: 39584328 (USE FORMAT 7 FOR FULLTEXT)

AVAL INTRODUCES NEW SOCKET ADAPTORS, ADVANCED SYSTEM SOFTWARE, AND EMULATOR
FOR EPROMS

PR Newswire, pN/A

Sept 2, 1985

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 237

... algorithm, the FUJITSU quick programming algorithm and the AMD interactive programming

SEPTEMBER 2, 1985

-2

algorithm. The FX -72 socket adaptor also operates with 2.xx supporting Fujitsu bipolar "71" and "72" series...

9/3,K/17 (Item 1 from file: 636)

DIALOG(R) File 636: Gale Group Newsletter DB(TM)

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04667807 Supplier Number: 60104147 (USE FORMAT 7 FOR FULLTEXT)

Windows World.

Smithers, Brain

Electronic.Musician, v15, n7, p54

July, 1999

Language: English Record Type: Fulltext

Document Type: Newsletter; Trade

Word Count: 4778

... map changes to either or both. Among this effect's options is a formant-preserving algorithm. Other Cakewalk FX include delay, chorus, flanger, reverb, and dedicated pitch shifter. All sound excellent and support presets.



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Why Upgrade to Version 2000?

# **Version 4.0 Feature Update**

The current release is <u>Pixel!FX 2000</u>. However, we are making this archived list the convenience of customers using older versions of Pixel!FX. The current version features below as well as newer enhancements added prior to the latest release.

See <u>Feature Archives</u> for features added in other previous Pixel! FX releases.

# Pixel!FX Version 4.0 Enhancements

Features are grouped by topic or Pixel! application.

- New Products
- Pixel!FX Deluxe
- Pixel!SCAN
- Pixel!EDIT
- Pixel! VIEW
- Pixel!DB
- Pixel!OCR
- Licensing

# **New Products**

- Pixel! FX Deluxe
- Pixel!DB

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# Pixel! FX Deluxe

- New product suite offers a complete set of imaging tools in a single, integral end, UNIX-based image processing.
- Includes Pixel! SCAN, Pixel! EDIT, Pixel! VIEW, Pixel! DB, Pixel! OCR, Pixel 1714
- The Pixel! FX Deluxe suite is priced lower than the sum of the individual cc

Archive: Version 4.0 Features

#### Site Index

price.

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# Pixel!SCAN

- Automated color calibration, to be used with the Mentalix Color Calibration added.
- Color calibration generates a scanner-specific profile that is saved to disk a scan (unless disabled) until the scanner is re-calibrated.
- Support for applying convolution filters (e.g., Unsharp Mask, Descreen or a filter) while scanning makes it even easier for customers to scan and process imple step.
- ADF support has been improved, with the added capability to scan a fixed the document feeder.
- Support for scanning to database and scanning to fax has been added.

Return to menu.

# Pixel! EDIT

- Graphical objects can be added to images. The graphical objects that are su polygons, rectangles, circles, ellipses, and text. Line width is user-selectabl
- Graphics editing features allow you to selectively change attributes, resize, previously added graphics.
- The graphical objects are drawn in an overlay plane, and are stored and retr vector graphics file. The graphical objects can be drawn in any color availa
- Graphics can be "burned" into the image.
- Text graphical objects support 35 postscript fonts, arbitrary rotation angles.
- The following convolution filters have been added:
  - o Unsharp Mask
  - o Descreen
  - o Ringing
  - o Emboss
  - o Prewitt
  - o Diagonal
  - o Blur
  - o Smooth
  - o Sharpen
- Support for user-defined kernels has been added.
- Image stitching enables users to assemble two or more images into a larger
- Paste from file enables users to create a selection from another image file. The facilitates image stitching.
- Multi-page editing support has been added to enable easy assembly and ma page images for document imaging, fax and database applications.
- Color quantization has been improved with introduction of three additional Median cut and Uniform. Both Optimal and Median cut offer significant in

previous color quantization algorithm in terms of color quality.

# Return to menu.

# Pixel!VIEW

- Support for JPEG compression in TIFF files has been added.
- Progressive JPEG and interlaced GIF are supported to facilitate WWW pag
- BMP import and export file filters added.
- Pseudo color postscript performance has been improved with file sizes redu
- Support for multi-page postscript files has been added.
- Ability to view image thumbnails and image size details while you are usin been added.
- Most loadable image file types are detected automatically.
- You can send and receive faxes directly from Pixel! FX to most popular thir applications.
- All '.jfif' extension uses have been changed to '.jpg'.
- Support for user data type extensions has been added to enable launching the directly from the Pixel! FX Image Album or Open dialog.
- Files in directory 'pfxdesk' in user's home directory are automatically loade

#### Return to menu.

### Pixel!DB

- The new Pixel! DB application allows easy storage, indexing, search and retimages.
- Pixel! DB supports an unlimited number of read-only users and one read/wr
- Users can import single image files or entire directories of images into Pixe
- Images can be imported by reference or copied into the database.
- Database can be configured to automatically compress images using lossy (
- Database can be configured to automatically execute OCR (requires Pixel!( art images are imported.
- Images scanned to database are stored directly to file without being loaded
- Users can work with multiple databases simultaneously, and can easily morassociated textual data between databases.
- Integration with Pixel! VIEW and Pixel! EDIT allows easy modification and images.
- Each database record contains: image, title, user filename, keywords, descr defined notes and OCR data.
- Scroll through the image title list or click on the image title to update the di database record information including low resolution (thumbnail) image an data.
- Search for images using textual query on any or all associated textual fields
- Easily review and edit your search results using the query result image title
- Intuitive query interface allows you to easily combine queries for more pov operations.

• Export group of images to a directory using image-specific export file name

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## Pixel!OCR

- A new version of the OCR engine has been integrated.
- The user interface has been improved to display the image on the OCR dial
- Zone support has been added, including automatic Zone decomposition, Zc editing, and Zone ordering.
- Zone typing allows the user to restrict zones to one of the following types:
  - o ANSI
  - o Lowercase (a ... z)
  - o Uppercase (A ... Z)
  - o Alpha (a ... z A ... Z)
  - o Digit (0 ... 9)
  - o Alphadigit (a ... z A ... Z 0 ... 9)
  - o Numeric (0 ... 9 \$+-%/=.,)
  - o Fixed Length Expression
  - o Word List
- Fixed Length Expression allows users to specify expressions (e.g., phone n
- Word List allows users to specify a file name that contains a list of allowab the zone.
- Load and Save settings are added to enable forms processing.
- Support for performing scanning and OCR in one step has been added.

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# Licensing

- Working with TIFF LZW and GIF image formats now requires a Pixel! LZI is required to satisfy Mentalix's license agreement with Unisys.
- Pixel! *PRINT* is now licensed as a separate add-on product, rather than being It is included with the new, comprehensive Pixel! *FX Deluxe* suite.

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